USER MANUAL:

Onsight Connect for Librestream Devices 1000/2000/2500

Version 6.0

Librestream Onsight 1000/2000/2500
User Manual
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Name of Librestream Software:
Onsight 1000

Onsight 2000

Onsight 2500

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Table of Contents

1 Getting Started 1
1.1 The Onsight System 1
1.2 Onsight Mobile Devices 2
1.3 About this Manual 2
1.3.1 Accessories and Support 2
1.4 Models 2
1.5 What's in the Box 2
1.6 Parts of the Onsight Device 3
1.6.1 Onsight 1000 3
1.6.2 Onsight 2000/2500 4
1.6.3 Control Buttons 5
1.6.4 Navigation Pad Buttons 6
1.6.5 Zoom/Manual Focus Control 7
1.6.6 Indicators 7
1.7 Onsight 2000/2500 Accessories 8
1.7.1 I/O Cover 8
1.7.2 Power Sled 9
1.7.3 I/O Sled 10
1.8 User Interface Features 11
1.8.1 Viewfinder 11
1.8.2 Soft Keys 11
1.8.3 Icons 11
1.8.4 Standard Onsight Device Icons 12
1.8.5 Main Menu 15
1.8.6 Stylus 15
1.8.7 On-Screen Keyboard 16
1.8.8 General Conventions 16
1.8.9 Terminology and Definitions 16
1.8.10 Tips 16
2 Onsight Device Basic Operation 17
2.1 Charging the Battery 17
2.2 Inserting or Replacing the Battery 17
2.2.1 Onsight 1000 Battery Replacement 18
2.2.2 Onsight 2000/2500 Battery Replacement 19
2.3 Calibrating the Integrated Touch Panel 21
2.3.1 Displaying the Calibration Screen Using Navigation Pad Buttons 21
2.4 Turning Power On or Off 21
2.4.1 Power On Mode 21
2.4.2 Power Off Mode 21
2.4.3 Standby Mode 22
2.4.4 Resetting the Onsight Device (Soft Reset) 22

2.5 Logging In & Out 23
2.5.1 Logging In 23
2.5.2 Logging Out 23
2.6 Inserting and Removing an SD Memory Card 24
2.6.1 Onsight 1000 24
2.6.2 Onsight 2000/2500 25
3 Answering & Initiating Calls 26
3.1 Network Access 26
3.2 Answering an Incoming Call 27
3.3 Initiating (Starting) a Call 28
3.4 Ending a Call 29
3.5 Audio Communication 29
4 Viewfinder Features & Display Modes 30
4.1 Controlling the Viewfinder Mode 30
4.1.1 Turn Viewfinder Backlight On or Power Save 30
4.1.2 Default Viewfinder Mode 31
4.1.3 Session Information 31
4.1.4 Streaming Status 32
4.1.5 Viewfinder Main Menu 33
5 Audio/Video (AV) Functions 34
5.1 Turning the Video Stream On or Off 34
5.2 Setting the Subject Audio Source and Volumes 34
5.3 Using S-Video 36
5.4 Turning Illumination On or Off 37
5.5 Adjusting Zoom Levels 38
5.6 Focusing 38
5.6.1 Automatic Focus 38
5.6.2 Manual Focus 38
5.7 Telestration (Drawing Lines on the Viewfinder) 39
5.7.1 Telestration while Streaming Live Video 39
5.7.2 Telestration while Sharing Recorded Video 41
5.7.3 Telestration Colors 43
5.8 Capturing and Sharing Images 46
5.8.1 Capturing Still Images for Local Viewing Only 46
5.8.2 Sharing a Live Image 47
5.8.3 Sharing a Saved Image 49
5.9 Recording and Playing Videos 49
5.9.1 Recording a Video 50
5.9.2 Playing a Video Recording Locally (not in a Call) 50
5.9.3 Sharing a Video Recording 51
6 Menus 53
6.1 Stream Setup 53
6.2 Checking Status 54

6.3 Viewing Contacts 55
6.3.1 Contacts 55
6.3.2 History 56
6.4 Managing Files 56
6.4.1 Rename Files and Folders 58
6.4.2 Playing Videos 58
6.4.3 Viewing an Image Locally 58
6.4.4 Sharing an Image with Onsight Connect endpoints 59
6.5 Configuration 59
6.6 Invite a Guest 61
7 Maintaining the Onsight Device 62
7.1 General Recommendations 62
7.2 Inspection/Maintenance/Cleaning 62
7.3 Display/Touch Screen 62
7.4 Optics 62
7.5 Ergonomic Recommendations 62
8 Onsight 1000 Technical Specifications 63
9 Onsight 2000R/Onsight 2000Ex Technical Specifications 65
10 Onsight 2500R/Onsight 2500Ex Technical Specifications 67
11 Service Information 69
12 Regulatory and Safety Information 70
13 Librestream Limited Warranty Agreement 71
14 End User License Agreement 72
15 Librestream Contact Information 73

Figures

Figure 2 – Onsight 1000 3
Figure 3 – Onsight 2000/2500 4
Figure 4 – Control Buttons 5
Figure 5 – Navigation Pad Buttons 6

1 Getting Started

1.1 The Onsight System

The Onsight system reaches beyond traditional video conferencing rooms to connect field workers in challenging environments with remote subject matter experts. Using Onsight Connect, subject matter experts can see live video and images and share feedback with field staff, external suppliers, or customers to assess operations or resolve issues immediately.

The Onsight Connect solution is comprised of three main components:

1. Onsight Connect service platform including rich collaboration software for the iPhone, iPad, PC and Onsight mobile devices
2. Librestream's Onsight mobile devices including rugged and hazardous location certified models
3. Central system management tools including Onsight Account Manager and Onsight Management Suite

Together, these components provide a full operations-driven video collaboration solution that is optimized to perform in challenging field environments. Using Onsight, a field worker can securely collaborate with multiple offsite experts through live video, images, voice, and on-screen drawing ("telestration"). Experts and field workers can resolve issues, fix problems, diagnose, or monitor field situations on the shop floor, in a remote health clinic, or even at the scene of an emergency.

Onsight Connect can simultaneously connect to multiple Onsight Connect users and multiple Onsight Devices.

1.2 Onsight Mobile Devices

Onsight Mobile Devices are used to communicate with Onsight Connect users (or multiple Onsight Connect users) over a network. The Onsight Device can fully collaborate from a remote site.

Technical experts and remote operators can jointly view, consult, diagnose and resolve issues by sending high-resolution video, sound and still images through streaming multimedia from the Onsight Device to one or more Onsight Connect endpoints.

Multiple Onsight Connect users and Onsight Devices can participate in a conference call. The Onsight Connect PC user who establishes the connection with the Onsight Device is called the Conference Host.

The Onsight Device operator and Onsight Connect user can:

- Converse just as they would on a mobile telephone
- Stream audio and video recordings in real time
- View and listen to streaming audio/video output in real time
- Record and play back video
- Draw (telestrate) on the video image
- Capture and save snapshot images
- Share snapshot images
- Draw (telestrate) on the snapshot image
- Remotely adjust the controls on the Onsight Device (e.g., zoom, focus, lighting, etc.)

1.3 About this Manual

This manual describes how to use the Onsight Device on a system that has already been set up and configured. For information on the Onsight Connect for PC application, consult the Onsight Connect for PC User Manual.

1.3.1 Accessories and Support

For information on additional accessories or for updated Onsight documentation, consult the Librestream website at http://www.librestream.com/. For support information, including troubleshooting and release bulletins, consult the Librestream website at http://www.librestream.com/support.

1.4 Models

The Onsight system includes powerful and easy to use mobile devices that are specifically designed to operate within different environments. These environments range from light industrial usage in locations such as hospitals or repair depots to harsh outdoor environments including potentially hazardous locations. For a complete list of the Onsight mobile devices, please see http://www.librestream.com/products.html.

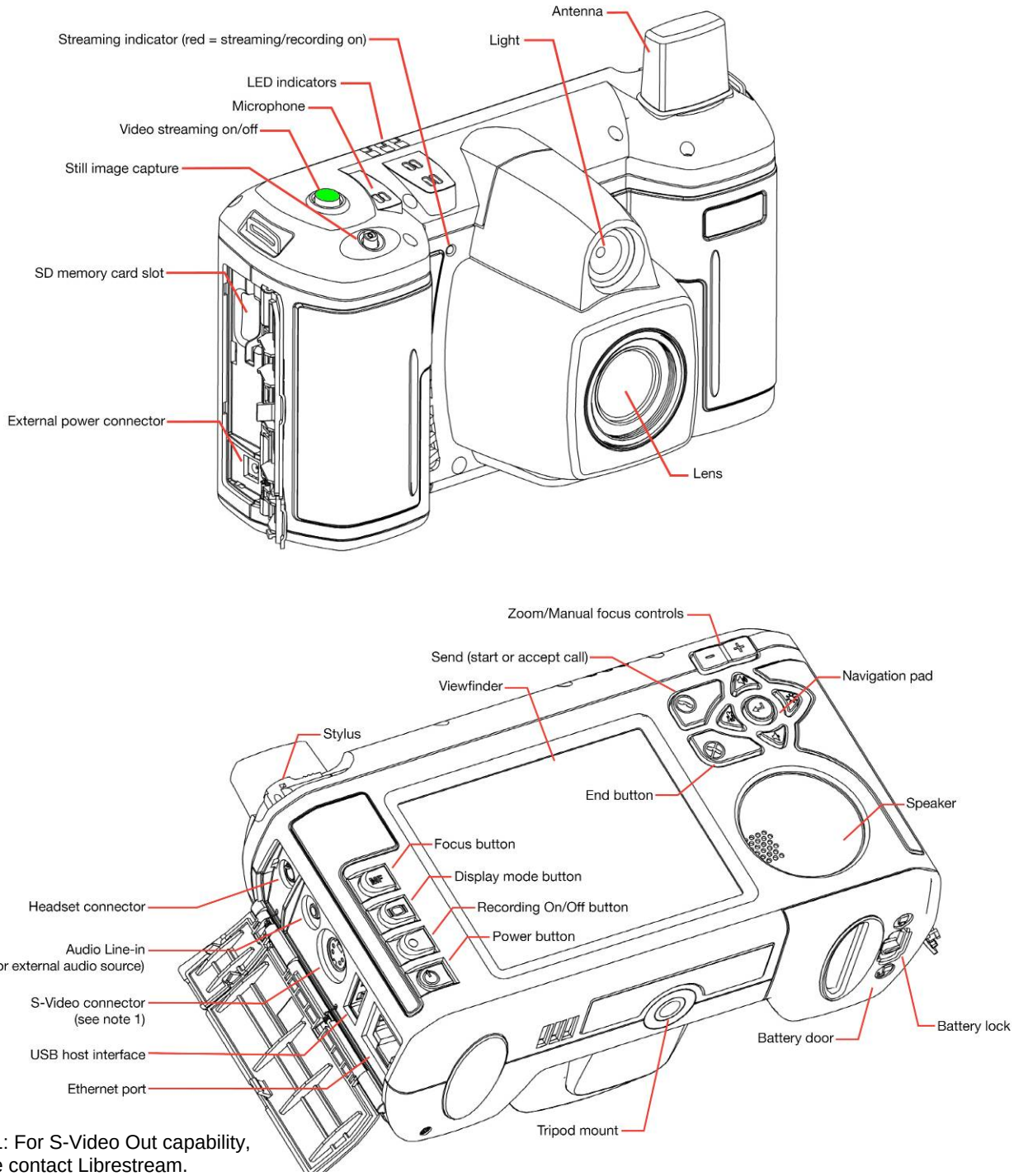
1.5 What's in the Box

The Onsight 1000 or 2000/2500 Device includes:

- External power adapter
- Rechargeable 2400 mAH Li-Ion battery pack
- Wrist strap
- Stylus (1 for the Onsight 1000)
- Stylus screwdriver (2 for the Onsight 2000/2500 – one is a spare)
- I/O cover (Onsight 2000/2500 only)
- Power sled (Onsight 2000/2500 only)
- Lens cover (Onsight 2000/2500 only)

1.6 Parts of the Onsight Device

1.6.1 Onsight 1000



Note 1: For S-Video Out capability, please contact Librestream.

Figure 1 – Onsight 1000

Before operating the Onsight 1000 Device, you must read the Onsight 1000 Regulatory and Safety Guide.

1.6.2 Onsight 2000/2500

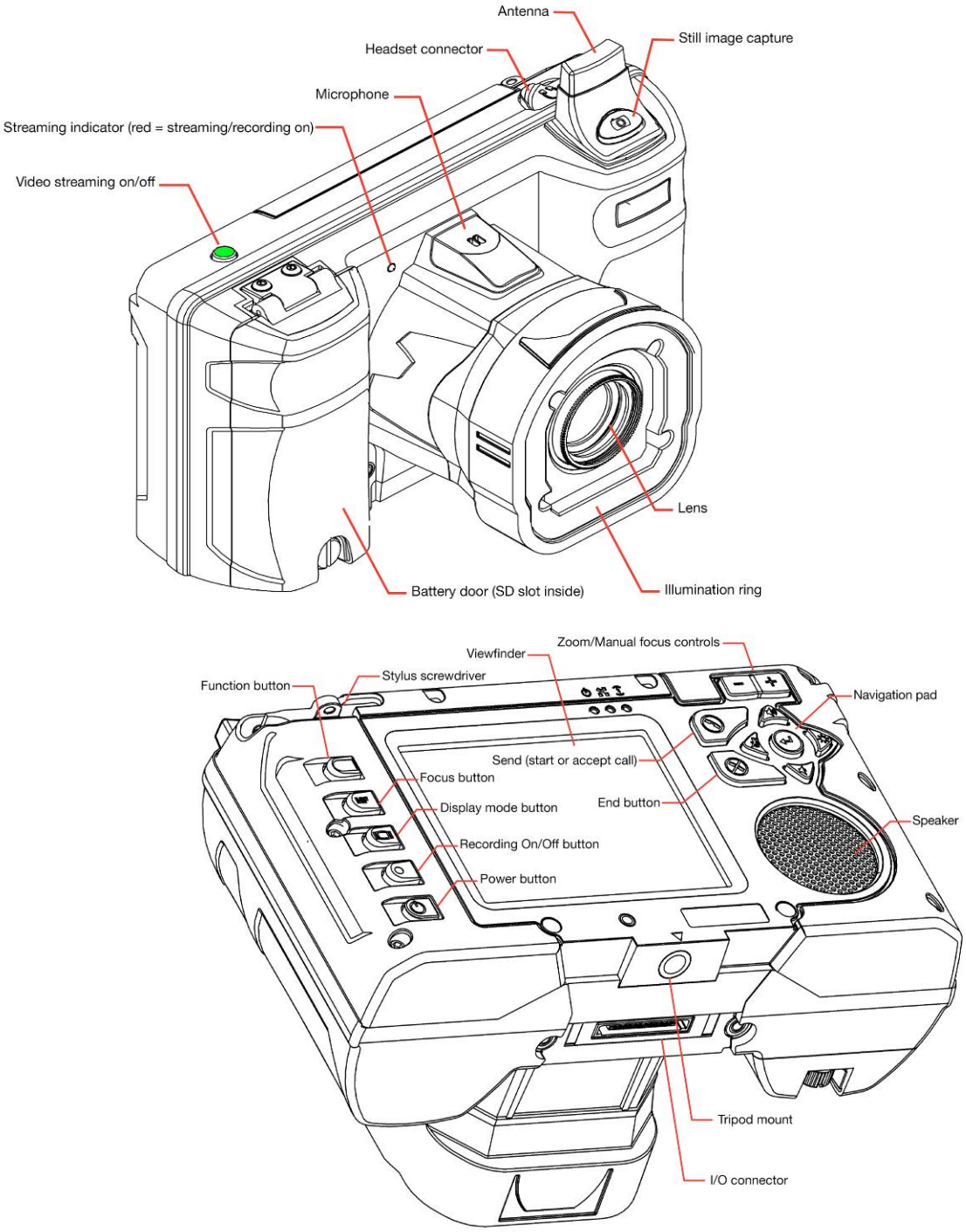


Figure 2 – Onsight 2000/2500

Before operating the Onsight 2000/2500 Device, you must read the Onsight 2000/2500 Regulatory and Safety Guide.

See paragraph 1.7 on page 8 for a description of the Onsight 2000/2500 accessories.

1.6.3 Control Buttons

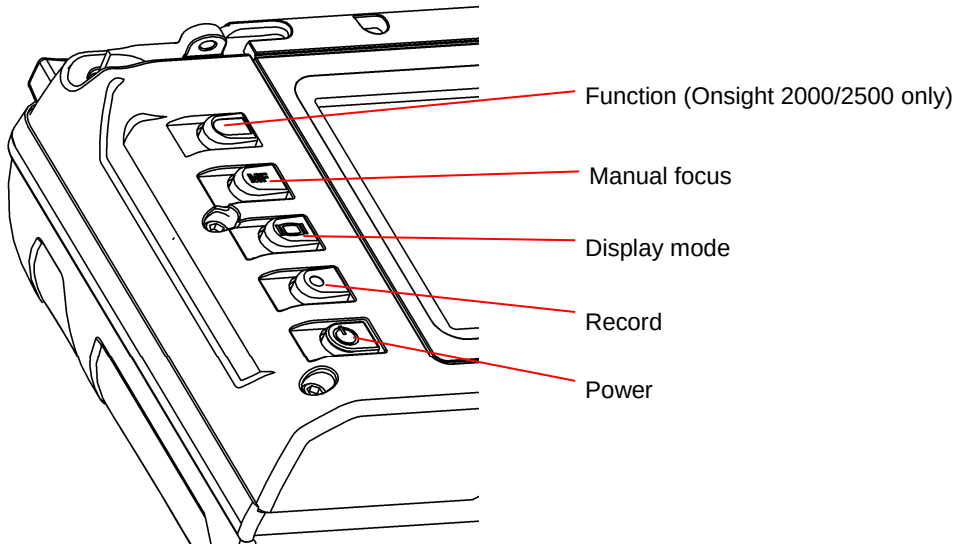


Figure 3 – Control Buttons

Button	Name	Function
	Function (Onsight 2000/2500 only)	Holding this button allows the use of the control buttons of the Navigation pad while navigating a menu on the Viewfinder.
	Manual Focus	Use this button to set the focus manually or to resume automatic focusing. It works in combination with the Zoom buttons. See paragraph 5.6, Focusing, on page 38 for more information.
	Display Mode	This button cycles through the Onsight Device's multiple display modes. See section 4, Viewfinder Features & Display Modes, on page 30 for more information.
	Record	Press this button to start/stop recording to a local Secure Digital (SD) memory card.
	Power	This button controls On/Off/Standby modes. See paragraph 2.4, Turning Power On or Off, on page 21 for more information. **If device status is… — Power button function** Off — Press and release the button to turn the power on. On — Press and release the button to go to Standby mode. Standby — Press and release the button to enter Power On mode. On or Standby — Press and hold the button for two seconds to turn the unit off. A shutdown message appears.

1.6.4 Navigation Pad Buttons

These context-sensitive buttons control audio volume, microphone mute and the illumination ring. They also function as command buttons and directional buttons for the menus.

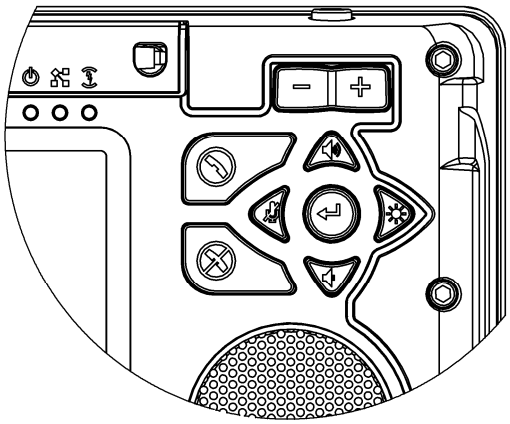


Figure 4 – Navigation Pad Buttons

Button	Function	Menu Function
	Start or accept call (Send)	OK or Enter
	End a call or reject an incoming call invitation	Cancel
	Increase volume	Up arrow
	Microphone mute	Left arrow
	Decrease volume	Down arrow
	Front illumination light: Onsight 1000: normal/off Onsight 2000/2500: normal/macro/off	Right arrow
	Enter/Freeze	Accept

*Onsight 2000/2500 only – to use the functions of the Navigation pad (e.g., **Microphone mute**) while navigating a menu, press and hold the **Function** button, then press the navigation button.*

1.6.5 Zoom/Manual Focus Control

The **Zoom** buttons are located on the back of the Onsight Device, directly above the Navigation pad (see Figure 4 on page 6). These allow the operator to set zoom levels on the camera or to set focus manually.

The **Manual Focus** MF button is located on the back of the Onsight Device on the left side (see Figure 3 on page 5). To set the focus manually, see paragraph 5.6.2, Manual Focus, on page 38.

1.6.6 Indicators

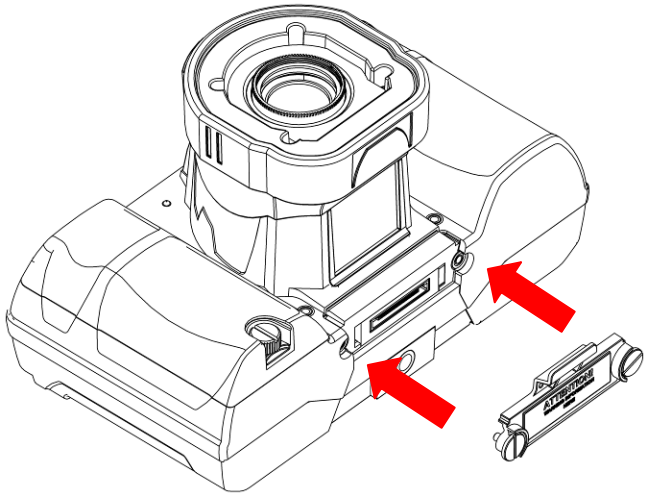
Indicator	Name	Explanation
	Power mode indicator	Green = On or Standby
	Network indicator	Green = Connected to network Off = Not connected to network
	Battery/power indicator	Orange = Battery is charging Off = Battery is charged or power is not connected
	Stream/record	Red = streaming/recording on Off = streaming/recording off
	Ethernet port	Establish the Ethernet connection before powering on the Onsight Device. On the Onsight 1000, the Ethernet port is on the side. On the Onsight 2000/2500, the Ethernet port is located on the I/O Sled accessory. The Ethernet port includes two LED indicators. Yellow On = a wired network link exists Yellow Flashing = indicates wired network activity Yellow Off = no wired network link Green On = 100 Mbps Green Off = 10 Mbps

1.7 Onsight 2000/2500 Accessories

The Onsight 2000/2500 comes with an I/O Cover and a Power Sled. The I/O Sled is an optional accessory.

1.7.1 I/O Cover

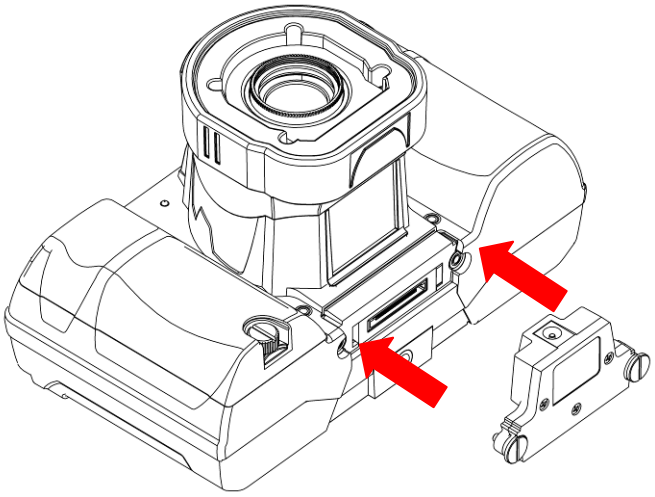
Before removing the I/O Cover or before using the Onsight 2000Ex/2500Ex Device without the I/O Cover installed, you must read the Onsight 2000/2500 Regulatory and Safety Guide.



The I/O Cover comes attached to the camera and can be removed using the stylus screwdriver. The I/O Cover seals and protects the I/O Connector so that the I/O Connector is not exposed. Remove the I/O cover when attaching the Power Sled or I/O Sled.

1.7.2 Power Sled

Before using the Power Sled with the Onsight 2000Ex/2500Ex, you must read the Onsight 2000/2500 Regulatory and Safety Guide.



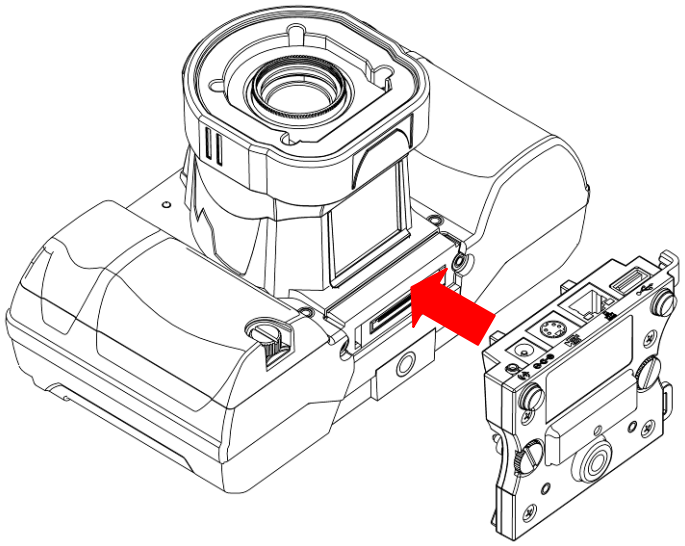
Attach the external Power Sled in order to operate the Onsight 2000/2500 from external power and/or to charge the battery. Remove the I/O Cover, insert the Power Sled into the I/O Connector, and tighten the thumb screws with the stylus screwdriver.

1.7.3 I/O Sled

The I/O Sled is an optional accessory that is required in order to use the Audio-in, S-Video, and Ethernet features of the Onsight 2000/2500.

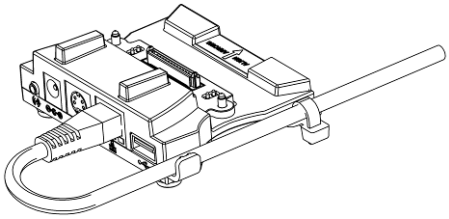
Establish the Ethernet connection before powering on the Onsight 2000/2500.

Before using the I/O Sled with the Onsight 2000Ex/2500Ex, you must read the Onsight 2000/2500 Regulatory and Safety Guide.

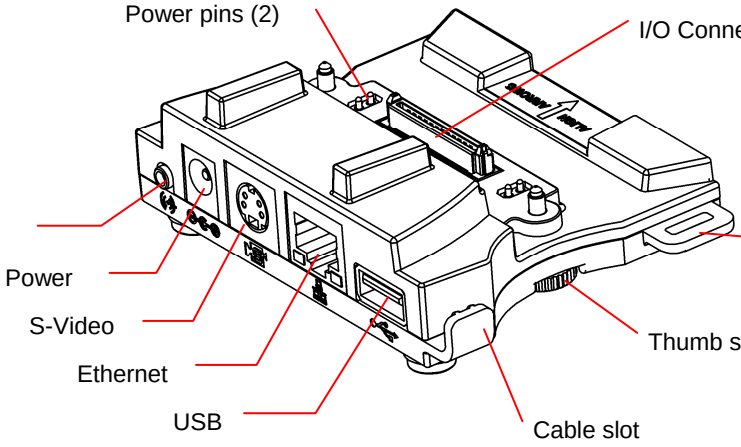


To attach the I/O Sled, insert into the I/O Connector of the Onsight Device. Tighten the thumb screws with the stylus screwdriver.

The parts of the I/O Sled accessory are as follows:



I/O Sled showing cable management



1.8 User Interface Features

1.8.1 Viewfinder

The display on the back of the Onsight Device functions as a camera viewfinder. By default, it shows what the lens at the front of the Onsight Device is viewing, but it can also provide status information and menus. Depending on the display mode, the Viewfinder uses a status bar, icons, and popup windows to provide information, notifications, and prompts as necessary.

Important: When you are using the Viewfinder screen, always use the stylus provided. Do not use other objects, as this could damage the Viewfinder screen. Tap the screen lightly. Do not press hard or strike the screen.

For further information on the Viewfinder features and display modes, see section 4, Viewfinder Features & Display Modes, on page 30.

1.8.2 Soft Keys

Some screens contain on-screen keys or buttons, e.g., **Accept** or **Cancel** on a configuration screen. You can select these by tapping them with your stylus, or by pressing Navigation pad keys.

All references to "select" refer to pressing the appropriate Navigation pad key (button) or tapping the screen element/icon with the stylus.

1.8.3 Icons

Some options or operating conditions cause notification icons to appear on the screen. Many of the icons are touch sensitive – tap the icon with the stylus to view a pop-up message or status screen. Tap the status screen again to dismiss the message.

Viewfinder icons provide status information and other notifications.

For example, tapping the **Power** icon will provide a **Status** screen showing more detailed power and battery status. Tap the **Status** screen again or press the **Display** button to dismiss the message.

1.8.4 Standard Onsight Device Icons

Icon	Description	Icon	Description
Power			
	Power Status – connected to external power		Battery level is critically low or the battery is defective
	Battery fully charged		Battery low
	Backlight power save		Backlight on
	Standby		
Network			
	Network connected		Network disconnected
	Network error		
Communication			
	Radio link disconnected		Low radio signal strength
General			
	General alert		Process successful (e.g. software update complete)
	Indicates the endpoint has selected encryption mode as their security setting.		
Camera Functions			
	Manual focus mode		Optical Zoom
	Illumination is off		Illumination is on
			Macro Illumination is on (2000/2500 only)

Icon	Description	Icon	Description
Image Control			
	Image captured but not displayed (tap icon to display the last captured image) Referred to as the **Start Image Display** icon.		Image captured but not shared while a call is connected (tap icon to share the last captured image) Referred to as the **Start Image Share** icon.
	Image displayed locally on the Viewfinder (tap icon or press **Capture** button to exit) Referred to as the **Image Displayed** icon.		Image displayed locally on the Viewfinder *and* shared with Onsight Connect (tap icon or press **Capture** button to exit) Referred to as the **Image Shared** icon.
Audio			
	Audio volume increased		Audio volume decreased
	Audio output muted		
	Microphone enabled		Microphone muted
Video			
	Stream initializing		Media stream active
	Media stream is experiencing significant packet loss		Media stream error
	Live video is not paused		The live video stream is paused
	Video streaming is disabled		
Telestration			
	Telestration icon (tap icon to open the Telestration menu)		
Calling			
	Call connected		Call disconnected
	Incoming call invitation		Outgoing call request (waiting for remote side to accept)

Icon	Description	Icon	Description
Call Status			
	Telestration Color – when clicked, brings up a color palette to change the telestration color. Any Onsight endpoint (Onsight Connect or Device) can change the telestration color of any other Onsight endpoint.		**Endpoint Type** – Onsight Connect endpoint.
	Endpoint Type – Onsight Device that is able to stream or receive live video, and can share images and recordings.		**Endpoint Type** – Onsight Device that is not able to stream or receive live video, but can share images and recordings.
	Media Stream Source – Onsight endpoint (Onsight Connect or Device) can be the **Media Stream Source**. By default, the **Media Stream Source** is the active Onsight Device in the conference. If any Onsight endpoint wants to play/stream a recording then that endpoint becomes the **Media Stream Source**.		
Recording			
	Remote endpoint is recording the call (video is shared)		Remote endpoint is recording the call (video not active)
	Record active		Recording disabled (Privacy mode)

1.8.5 Main Menu

Access to the **Main Menu** is by using the **Display Mode** button . The **Main Menu** is used for configuration and other setup options.

➔ To access the **Main Menu**:

1. Press and release the **Display Mode** button three times.
2. The **Main Menu** appears with these selections.

3. To exit this menu, press and release the **Display Mode** button.

*The **Display Mode** button cycles through additional display modes. See section 4, Viewfinder Features & Display Modes, on page 30 for more information.*

1.8.6 Stylus

The stylus is used to select an icon or button, a menu item or keyboard character, or to view a pop-up message or status screen. Simply tap the item with the stylus tip. For information screens or pop-up messages, tap the item again to close it.

Tap the screen lightly. Do not press hard or strike the screen. Do not use other objects, as this could damage the Viewfinder screen

The Onsight 2000/2500 Device's stylus has a screwdriver tip on one end. Do not use the screwdriver tip to make any selections on the viewfinder. The screwdriver tip is used for the I/O Sled, I/O Cover, and Power Sled, or for opening the battery compartment.

1.8.7 On-Screen Keyboard

The on-screen keyboard appears when you select a text field in the Viewfinder. Tap the keys with the stylus to enter text. For additional characters, tap the **Shift** key.

To move the on-screen keyboard to a new location on the screen, touch the stylus to the top edge of the keyboard image and drag it to a new location.

1.8.8 General Conventions

- The "➔" symbol is used to identify to the user a sequence of steps that need to be performed for a specific function.

  i.e. ➔ To set the Standby delay…
- Bold is used to identify a screen name, menu name, screen message, or specific icon name called out in an instruction.

  i.e. The message "**Video resumed**" appears.
- The icon identifies to the reader important information to be read.
- The icon identifies to the reader information that is useful for the function being described.

1.8.9 Terminology and Definitions

- Only one Onsight Device can stream *live* video in a conference call. This Onsight Device is therefore referred to as the *primary* Onsight Device. All other Onsight Devices in the conference call are referred to as *secondary* Onsight Devices.
- "Expert" refers to the user of the Onsight Connect software application.

  i.e. Onsight Connect software installed on the expert's computer.
- Onsight Connect or an Onsight Device is designated as an endpoint.
- "Video" or "Recording" can be used interchangeably depending on context, and can refer to:
  - a video recording which may include video, two-way voice, subject audio, images, and telestration
  - a two-way voice recording only
- "Audio" or "Voice" refers to audio from an operator's voice.
- "Subject Audio" refers to the unprocessed sound coming from the subject captured by the Onsight Device.
- Temporary color change means that the color that was changed will revert back to its previous (default) color after a session (call) has ended. A permanent color change is made by saving the new color as default (i.e. Save As Default).

1.8.10 Tips

- A conference call consists of more than two call participants. The host of the conference call is the Onsight Connect user who establishes the connection with the Onsight Device.
- For video playback, live video streaming must be off.
- When making a recording, it is possible to record a voice audio-only call.
- You cannot share an image during video playback.
- You can share an image during live streaming.

2 Onsight Device Basic Operation

Before operating the Onsight Device, you must read the Onsight Regulatory and Safety Guide.

Note that the Onsight Device shuts itself off when battery power is low.

- If the unit is on, and an operator is using it in an active call, a warning message appears so that the operator has time to plug the Onsight Device into the external power adapter, or end the call before the Onsight Device shuts off.
- If the unit is in Standby, it simply shuts itself off.
- If the unit is off, it cannot be started when the battery is low.

2.1 Charging the Battery

Before charging the battery for the Onsight 2000Ex/2500Ex, you must read the Onsight 2000/2500 Regulatory and Safety Guide.

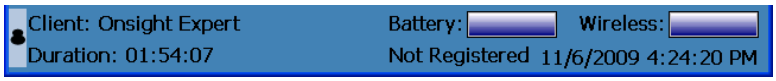
New batteries must be charged prior to first use.

➔ To charge the battery:

1. Plug in the external power adaptor and allow the battery to charge until the orange battery indicator extinguishes (up to eight hours).
2. The internal battery charger will shut itself off to prevent overcharging once the battery is fully charged.

➔ To check current battery levels:

1. Press the **Display** button once and check the **Session Information Status** bar at the bottom of the Viewfinder which shows the battery level.



2. See paragraph 4.1.3, Session Information, on page 31 for more information on Viewfinder Features & Display Modes.

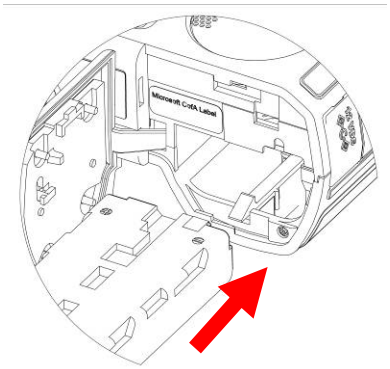
2.2 Inserting or Replacing the Battery

Before using this Onsight Device for the first time you must install and charge the battery.

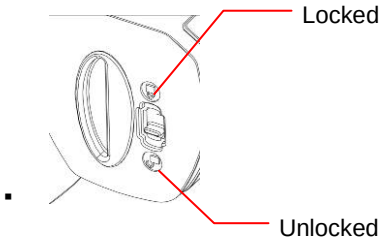
2.2.1 Onsight 1000 Battery Replacement

➔ To insert or replace the Onsight 1000 battery:

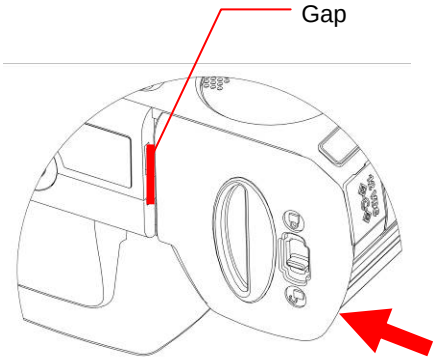
1. Ensure the device is powered off before proceeding. See paragraph 2.4, Turning Power On or Off, on page 21 for instructions.
2. Open the battery compartment and insert the battery until it clicks into place and is flush. It only fits one way.



3. Close the battery door as follows:
   - Ensure the lock switch is in the unlocked position.



   - Orient the battery door so it is flat against the battery well, but with approximately a 3mm gap.



   - Slide the door toward the center of the unit until it is fully closed.
   - Slide the lock switch to the locked position.
4. Connect the Onsight 1000 to the external power adapter and charge the battery until the orange LED turns off (up to 8 hours).

The Onsight Device will not operate on the external adapter alone. You must have a battery installed.

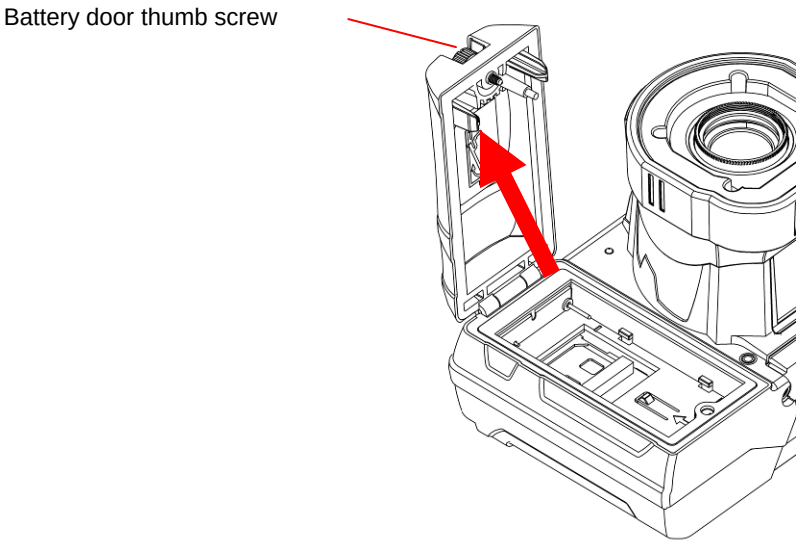
2.2.2 Onsight 2000/2500 Battery Replacement

Before opening the Onsight 2000Ex/2500Ex battery cover, you must read the Onsight 2000/2500 Regulatory and Safety Guide.

If an SD memory card needs to be inserted or replaced, it is best to do it at this time, prior to installing the battery. See paragraph 2.6.2 on page 25 for instructions on how to remove and replace an SD memory card.

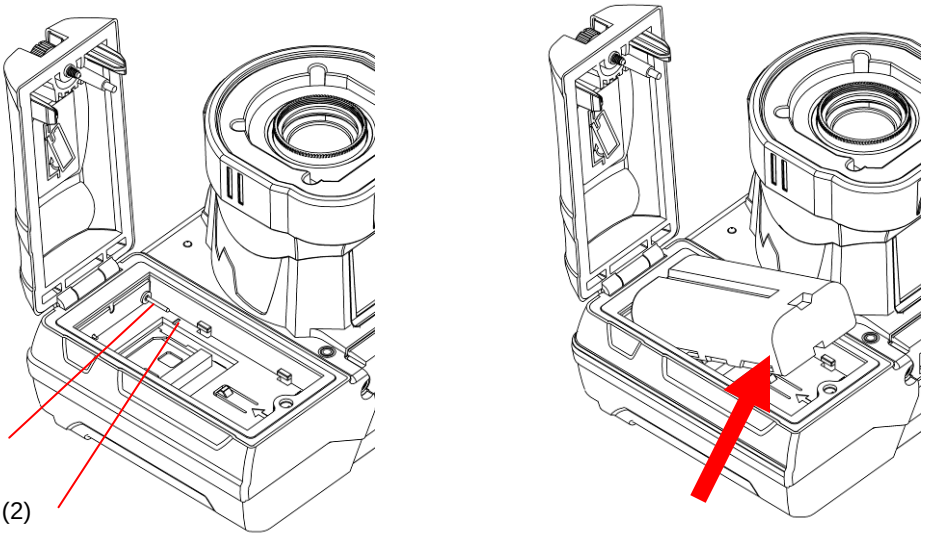
➔ To insert or replace the Onsight 2000/2500 battery:

1. Ensure the Onsight Device is powered off before proceeding. See paragraph 2.4, Turning Power On or Off, on page 21 for instructions.
2. Open the battery compartment door using the stylus screwdriver.

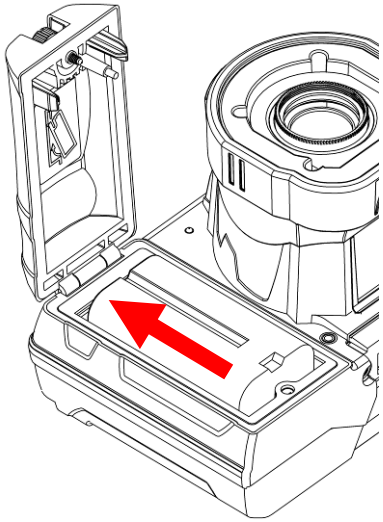


3. If the battery is being replaced, remove the old battery by sliding the battery back towards the end of the battery compartment and then lifting out the battery.

4. When installing the new battery, align the contact edge of the battery with the small recess lines in the battery compartment, keeping the opposite end of the battery up.



5. Slide the battery towards the compartment door and push downward to place in the battery well.
6. When the battery is sitting flat on the compartment floor, slide the battery towards the compartment door until seated.



7. Close the battery compartment and tighten the screw. Note that the door will not close if the battery is not fully inserted, and the Onsight Device will not start if the door is not properly closed.
8. Attach the Power Sled or I/O Sled and use the external power adapter to charge the battery until the orange LED turns off (up to 8 hours).

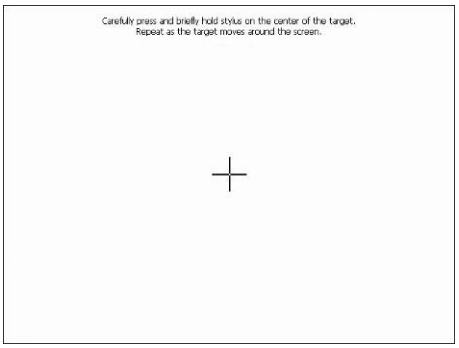
The Onsight Device will not operate on the external adapter alone. You must have a battery installed.

2.3 Calibrating the Integrated Touch Panel

The Viewfinder display on the back of the Onsight Device includes an integrated touch panel designed for use with the stylus that has been included with the device. The Viewfinder touch panel allows control of many Onsight Device features, including menu selection, configuration, text entry (via on-screen keyboard) and on-screen button selection. In addition, the touch panel can be used to draw over images and video. See paragraph 5.7, Telestration (Drawing Lines on the Viewfinder), on page 39.

When you are using the Viewfinder screen, always use the stylus provided. Do not use other objects, as this could damage the Viewfinder screen. Tap the screen lightly. Do not press hard or strike the screen.

When you first start the Onsight Device, if the touch screen has not been calibrated, a calibration screen is presented. Follow the on-screen instructions to calibrate your touch panel to permit accurate stylus tracking.



2.3.1 Displaying the Calibration Screen Using Navigation Pad Buttons

If the touch screen is incorrectly calibrated to the extent that it can't be used to navigate the menu settings, you can access the screen calibration function using the keypad: simultaneously press and hold the **Up** and **Down** buttons while not pressing the **Enter** button. This will display the touch calibration screen.

2.4 Turning Power On or Off

There are three power modes: On, Off and Standby.

2.4.1 Power On Mode

➔ To turn the device on:

1. Press and release the **Power** button to turn the Onsight Device on.
2. When you first turn the camera on, you may be required to log in, and a touch panel calibration screen may appear.
3. When the power is on the **Power** indicator LED is green.

2.4.2 Power Off Mode

Turning off the Onsight Device automatically logs you out.

➔ To turn the device off:

1. Press and hold the **Power** button for two seconds.
   - If the device was on, a message is displayed indicating that the device is turning off.
   - If a call was active, a prompt appears asking for confirmation to terminate the call.
   - If the device was in Standby, it immediately switches off.
2. When the power is off the **Power** indicator LED is off.

2.4.3 Standby Mode

Standby mode provides longer battery life than Power On mode because it shuts down the display and puts the camera into a low power mode. However, incoming calls will still be received. The Onsight Device also enters Standby mode automatically after a configurable amount of time.

➔ To enter Standby mode:

1. Turn the Onsight Device on.
2. Press and release the **Power** button to enter Standby mode.
3. If a call was active, a prompt is displayed asking for confirmation to terminate the call. A message is displayed indicating that the Onsight Device is entering Standby.
4. When the Onsight Device is in Standby mode, the **Power** indicator LED is green. This is the only visible indication that the Onsight Device is in Standby mode and is capable of receiving incoming calls.

➔ To come out of Standby:

1. Press the **Power** button or answer an incoming call.
2. If the device is configured to require that you log-in when resuming from Standby (this is set in **Main Menu > Configuration > Security > Login)**, you can answer a call but you must log in again before you can proceed further, i.e. to use the Onsight Device to stream video, access menus, or perform other functions. You can still access the **Status Menu** and its options without logging in though.

➔ To set the Standby delay:

1. From the standard Viewfinder display window, press and release the **Display** button three times (or until the **Main Menu** appears).
2. Tap the **Configuration** option with the stylus to display the **Configuration** screen.
3. Select **General** and then **Power**.
4. Set the time in the **Standby Timeout** field. Enter a time of ‘0’ to disable automatic Standby mode.
5. Click **Accept** to accept the change and exit the **Configuration** menu. Click **Apply** to accept the change but remain in the **Configuration** menu. Click **Cancel** to cancel the change and exit the **Configuration** menu.

2.4.4 Resetting the Onsight Device (Soft Reset)

If the Onsight Device becomes non-responsive and you cannot turn it off by pressing the **Power** button for two seconds, a soft reset may be required.

➔ To reset the Onsight Device:

1. Press and hold both the **Power** and **Display** buttons until the display clears (approximately 10 seconds).
2. Do ***not*** perform a soft reset on the device unless it stops responding to normal operations.

CAUTION:

A hard reset can be generated using the reset switch accessible through the access hole located near the SD memory slot in the Onsight 1000, or inside the battery compartment in the Onsight 2000/2500.

The hard reset should not be used by non-service personnel because damage to the Onsight Device file system may result.

2.5 Logging In & Out

There are two Onsight login methods your organization may choose for the Onsight Device. The two methods are:

- Onsight Connect Account Service – the Onsight Device connects to the Onsight Connect hosted service. This method provides additional features outlined in section 6.
- Local Service – the Onsight Device does not use the Onsight hosted service.

The Onsight Device ships with a Local Service license included. The login information is provided below. If your organization is using the hosted Onsight Connect Account Service, you will likely use the same login method you are using for Onsight PC and Onsight iOS endpoints for a consistent experience.

2.5.1 Logging In

If your Onsight Device has been configured to request a login, you will be prompted with a **User Authentication** screen, as shown below. In the Username and Password fields enter the user name and password given to you by your Onsight system administrator.

For a Local Service log in, the default user name and password are:

- **Username**: *admin*
- **Password**: *admin*

This is a built-in user name that is meant to allow an Onsight administrator to initially log in and set up other user names and passwords. We strongly recommend that the Onsight administrator change the admin password from the default to improve security.

➔ To login to the Onsight Device:

1. Tap the **Username** field with the stylus and tap characters on the keyboard to enter your user name. (your Onsight administrator will provide this to you).
2. Tap the **Password** field with the stylus and tap characters on the keyboard to enter your password.

Keyboard appears when you select a text field. Tap the keys with the stylus to enter text.

To move the on-screen keyboard to a new location on the screen, touch the stylus to the top edge of the keyboard and drag it to a new location.

3. Tap the **Login** button to finish logging in.

*If your Onsight system administrator has enabled anonymous login, a **Skip** button is available to bypass the login process.This is a Local Service login.*

2.5.2 Logging Out

➔ To log out:

1. From the standard Viewfinder display window, press and release the **Display** button three times (or until the **Main Menu** appears).
2. Select **Sign Out** from the **Main Menu**.
3. If you are still in a call, a message will appear confirming that you need to hang up before you can sign out. Select **Hang Up** to end the call and sign out back to the **User Authentication login** screen.

2.6 Inserting and Removing an SD Memory Card

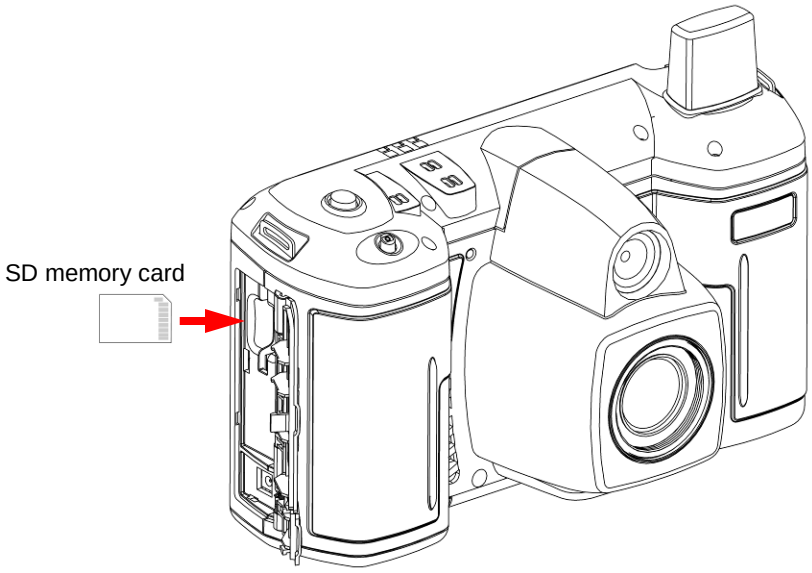
The Onsight Device features an SD memory card slot to support recording, playback, image capture as well as configuration and system upgrades.

2.6.1 Onsight 1000

➔ To insert or replace the Onsight 1000 SD memory card:

Do not remove the SD card while recording. This can corrupt the card data.

1. Open the SD memory card slot cover on the side of the device.



2. If there is already an SD memory card in place, gently push to release it from the slot.
3. Pull the card out. It should slide out easily.
4. Gently push the new card in until it clicks into place.
5. Close the compartment cover.

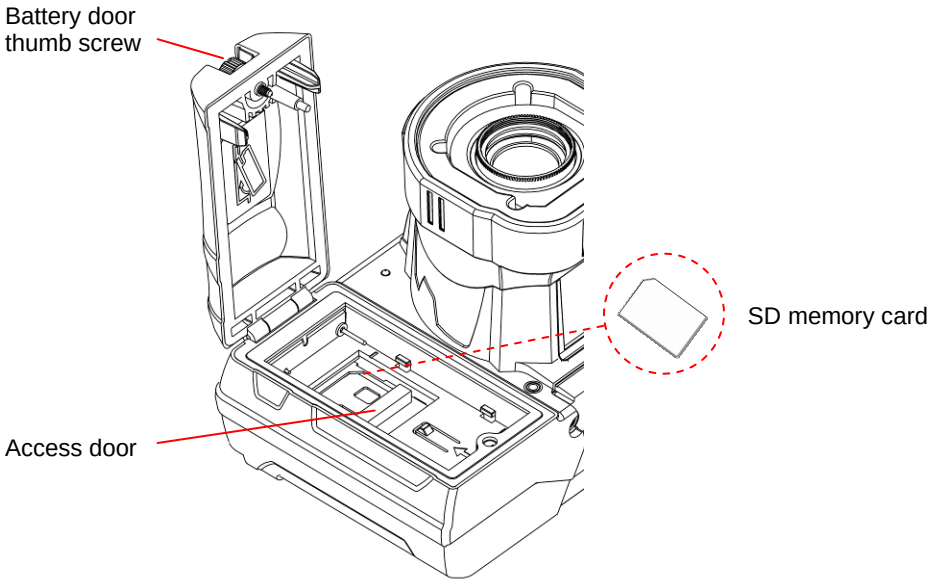
2.6.2 Onsight 2000/2500

Before opening the Onsight 2000Ex/2500Ex battery cover, you must read the Onsight 2000/2500 Regulatory and Safety Guide.

➔ To insert or replace the Onsight 2000/2500 SD memory card:

Do not open the battery door while recording. This can corrupt the memory card data.

1. Ensure the device is powered off before proceeding. See paragraph 2.4, Turning Power On or Off, on page 21 for instructions.
2. Open the battery compartment door using the stylus screwdriver, and remove the battery by sliding the battery back towards the end of the battery compartment and then lifting out the battery.



3. If there is already an SD memory card in place, flip open the access door to release the card from the slot.
4. Pull the card out.
5. Place the new card in the slot (at a slight angle to engage the contacts first) and then gently push the card down until it is seated.
6. Close the access door.
7. Re-insert the battery and close the compartment door.

3 Answering & Initiating Calls

The Onsight Device operator can either:

- call an Onsight Connect user, or
- answer an incoming call from an Onsight Connect user.

Use the **Send** and **End** buttons on the Navigation pad to start and end calls, similar to the keys on a mobile phone. Once a call is established, you can collaborate using voice, video, audio, images and annotations.

Note that Onsight Connect can initiate a conference call with other Onsight Connect users so that the Onsight Device can collaborate with multiple experts.

*In order to participate in a call, all participants must have the same encryption setting. The encryption setting of the person initiating the call must be used by all other call participants. The **Encryption Mode** is set in the **Main Menu > Configuration > Security > Encryption** screen. See paragraph 6.5, Configuration, on page 59.*

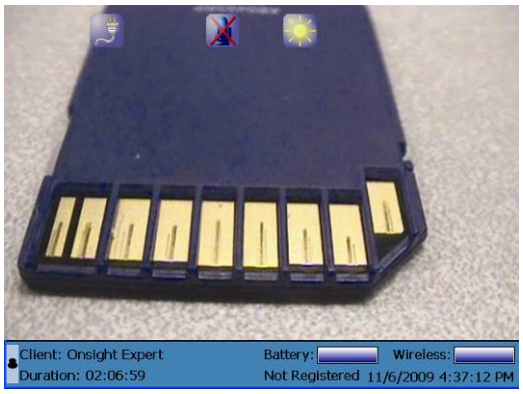
3.1 Network Access

Before you can answer or initiate a call, you must be able to communicate with the network, either through a direct wired connection, or wireless connection. The **Network** link indicator , the middle of the three indicators on the top of the Onsight Device, indicates whether or not a **Network** link exists.

If a connection is required from a hotspot/guest network that requires browser access, go to the **Main Menu > Configuration > Network > Hotspot Login** screen. A successful login will result in the display of the Librestream welcome page. See paragraph 6.5, Configuration, on page 59.

➔ To check current wireless network conditions:

1. Press the **Display** button once and check the **Session** information at the bottom of the Viewfinder.

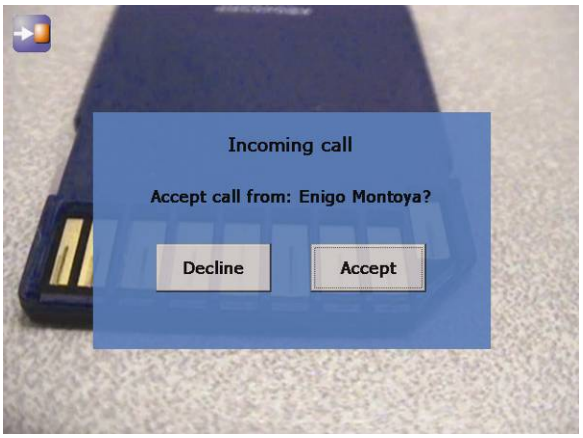


2. Another option is to press the **Display** button three times to display the **Main Menu**. Tap the **Status Menu** option with the stylus, and then select **Network Status**.

See page 30 for more information on the Viewfinder Features & Display Modes.

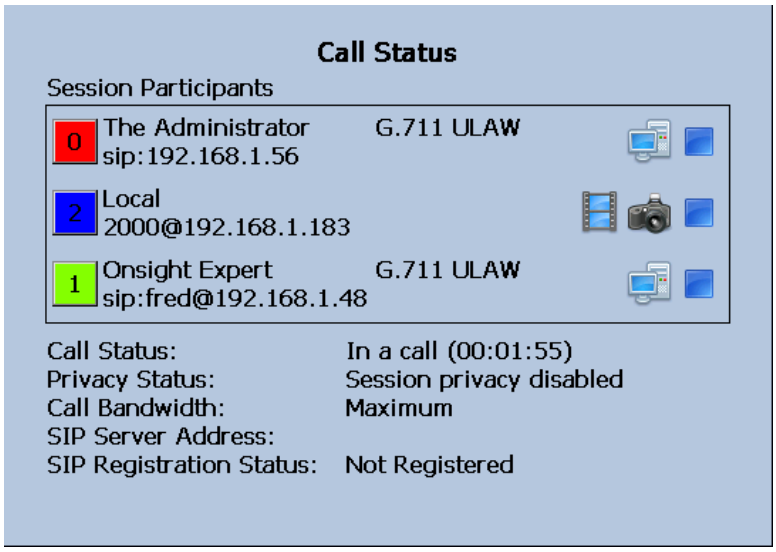
3.2 Answering an Incoming Call

To receive incoming calls, the Onsight Device must be On or in Standby mode. When a call comes in, the Onsight Device rings like a mobile phone and the Viewfinder displays a dialog box similar to the one shown.



➔ To accept (answer) the call:

1. Tap **Accept** or press the Onsight Device **Send** button .
2. If there is more than one participant (i.e. Onsight Connect), in the call then the message "**Other participants are in this call. See the call status panel for details.**" This means that there is more than one Onsight Connect connected to the call and you are in a conference call.
3. Tap the icon to bring up th**e Call Status** screen.



4. Tap the **Call Status** screen to close it.

Tip If a participant enters the conference, the name of the new participant will appear in a message as in the example below:

If a participant leaves the conference, the name of the participant leaving will appear in a message as in the example below:

➔ To refuse the call:

1. Tap **Decline** or press the **End** button.

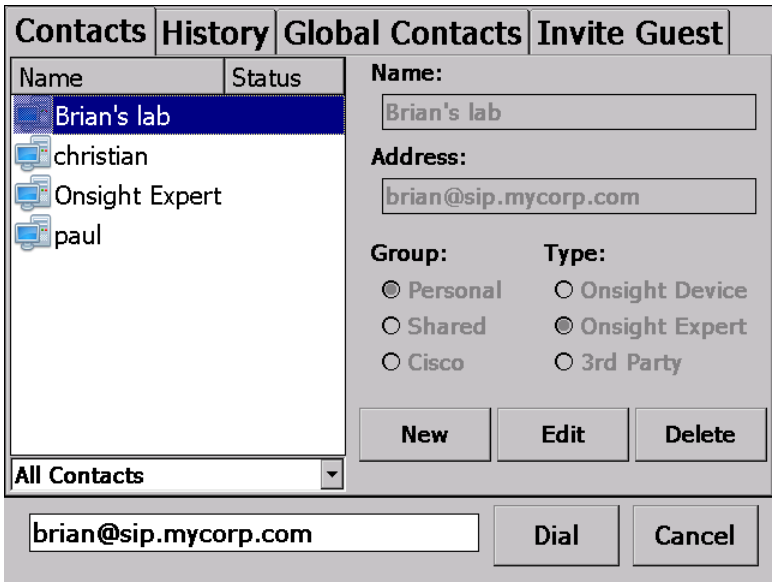
➔ To enable automatic answering of a call:

1. From **Main Menu > Configuration > Call Control > General**, select "**Enable auto answer**".
2. Any incoming call will now be answered automatically after three rings.

3.3 Initiating (Starting) a Call

➔ To initiate or start a call from an Onsight Device:

1. Press the **Send** button to display a **Contacts** window listing the contacts (personal and global) that this Onsight Device has been set up to contact.



Note: Global Contacts is not present if you are logged in to Local Service. Invite Guest is only present if you currently have an active connection to Onsight Account Service.

2. Use the Navigation pad buttons, or tap the name to highlight the contact that you want to call. When you select a name, the contact's destination address appears in the field at the bottom of the window.

   If the correct name does not exist, tap the field at the bottom of the window and use the on-screen keyboard to enter the address of the contact you need to call. Consult your Onsight system administrator for details.
3. When the desired network address is displayed in the **Network** address field either tap **Dial** with the stylus or press the **Send** button to initiate the call.

You will hear the outgoing rings or a busy signal on the Onsight Device just as you would on a mobile phone. When the call is answered, you can start talking, just like a mobile phone. If the call is declined, a message will be displayed indicating the reason.

3.4 Ending a Call

➔ To end a call:

1. Press the **End** button ⊗.

Onsight Connect can also terminate the call from the Onsight Connect application.

3.5 Audio Communication

Before using a headset with the Onsight 2000Ex/2500Ex, you must read the Onsight 2000/2500 Regulatory and Safety Guide.

For conversation, the Onsight Device can operate using its built-in microphone and speaker, or a headset:

Speaker phone – if a headset is not attached, the Onsight Device operates as a speaker phone using its built-in omni-directional microphone and speaker.

Headset – if you plug a headset into the headset connector the Onsight Device uses the headset microphone and speaker. This is useful in noisy environments or where privacy is a concern. In this case, Subject Audio continues to use the built-in microphone or external audio line-in, if selected. When using a closed-ear headset, the **Headset Sidetone** feature provides feedback to the user to ensure speaking volume is satisfactory. **Main Menu > Configuration > Audio > General** enables the sidetone feature, and **Main Menu > Configuration > Audio > Volumes** allows for sidetone volume adjustment.

Onsight 2000/2500 – Audio Line-in is only available on the I/O Sled accessory. For more information on using the I/O Sled, see paragraph 1.7.3, I/O Sled, on page 10.

Tip If the operator needs to capture particular sounds as part of the video stream (e.g., an odd noise being made by a piece of machinery), you can also set a Subject Audio source, as described in paragraph 5.2, Setting the Subject Audio Source and Volumes, on page 34.

4 Viewfinder Features & Display Modes

The Viewfinder shows what the Onsight Device is viewing, but it also provides status information and menus. Depending on the display mode, the Viewfinder uses a status bar, icons, and popup windows to provide information, notifications, and prompts as necessary.

Note that the status bar information and menus only appear for the Onsight Device operator. This information does not appear for the Onsight Connect software user who is receiving streamed information.

4.1 Controlling the Viewfinder Mode

➔ To control the Viewfinder mode:

1. Starting from the Default mode that appears when the device first turns on, press the **Display** button one or more times to switch the Viewfinder into a different mode, as described below.

Display button	Result
Press and release once	Session information displayed.
Press and release second time	Stream information displayed.
Press and release third time	Main Menu displayed – for configuration and other setup options.
Press and release fourth time	Display returns to default Viewfinder mode.
Press and hold	Toggles the display backlight on or power save.

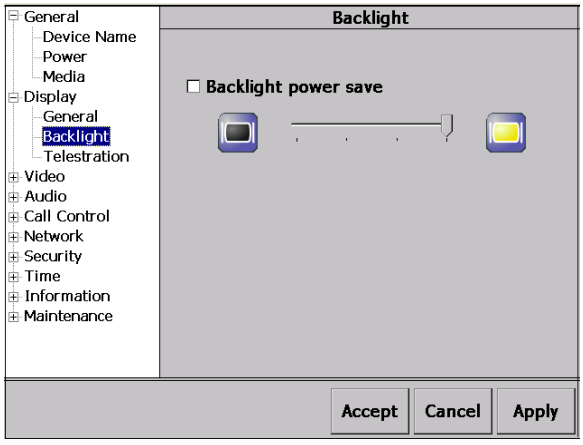
4.1.1 Turn Viewfinder Backlight On or Power Save

➔ If you do not require the Viewfinder backlight:

1. Press and hold the **Display** button until the backlight dims and enters power-saving mode. Placing the backlight in power save mode extends run time when operating on battery.
2. Press and hold the **Display** button again to turn the backlight back on.

➔ The default backlight level and power save mode can also be set from the Onsight Device configuration screen:

1. Press the **Display** button three times until the **Main Menu** appears.
2. Select **Configuration > Display > Backlight**.
3. Select ☑ to enable the **Backlight power save**.
4. If the **Backlight power save** is not enabled, use the slide bar to adjust the backlight level.



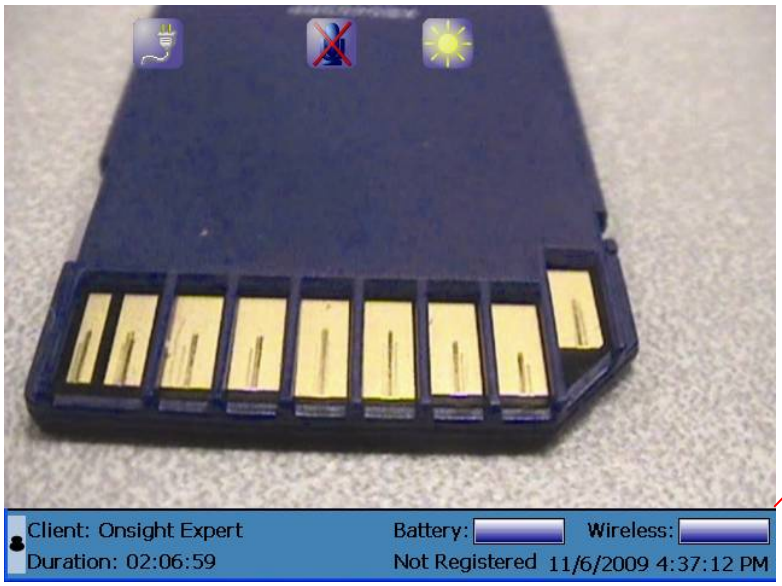
4.1.2 Default Viewfinder Mode

This is the default mode that appears when you first turn the camera on. Viewfinder mode maximizes the visible video area by providing as little extraneous screen information as possible. The **Status** bar area is initially blank, but icons, pop-up notifications, and prompts appear as necessary.

4.1.3 Session Information

➔ To view the **Session Information Status** bar:

1. Starting from the default Viewfinder, press **Display** once to display session information in the **Session Information Status** bar.
2. The Viewfinder shows live camera video and status information as shown below.



3. You can hide the **Session Information Status** bar by tapping on the **Pin** icon in the bottom left corner of the status bar.
4. To bring back the **Session Information Status** bar, tap the bottom of the screen or press **Display**.

5. If you want to keep the **Session Information Status** bar visible, tap the **Pin** icon .

4.1.4 Streaming Status

➔ To view the **Stream Status** bar:

1. Starting from the default Viewfinder, press **Display** twice to display stream information in the **Stream Status** bar.
2. The Viewfinder shows live camera video and status information as shown below.

3. You can hide the **Stream Status** bar by tapping on the **Pin** icon in the bottom left corner of the status bar.
4. To bring back the **Stream Status** bar, tap the bottom of the screen or press **Display**.
5. If you want to keep the **Stream Status** bar visible, tap the **Pin** icon .

4.1.5 Viewfinder Main Menu

➔ To access the **Main Menu**:

1. Starting from the default Viewfinder, press **Display** three times.
2. The **Main Menu** appears with these selections.

3. To exit this menu, press and release the **Display** button.

For more information on the **Main Menu** and other menu options, see section 6, Menus, on page 53.

5 Audio/Video (AV) Functions

Onsight can provide a complete record of a call, including two-way voice, video, subject audio, images and telestration. Calls can also be recorded without an active video stream.

Once a call is connected, the Onsight Device can send an AV media stream to Onsight Connect.

In a conference call the AV media stream is seen by *all* Onsight Connect participants. The secondary Onsight Devices can participate in image sharing and streaming of recorded audio/video, but unlike the primary Onsight Device, can not participate in live streaming.

5.1 Turning the Video Stream On or Off

Enabling the video stream sends a subject audio/video media stream from the Onsight Device to the Onsight Connect participants. The stream will continue as long as the call is connected or until the operator or Onsight Connect selects an option to stop or temporarily freeze the streaming.

➔ To start and stop streaming live video to Onsight Connect:

1. Press the **Stream** button on the top of the Onsight Device.
2. Press the **Stream** button again to stop streaming.

This does not disconnect the call; the stream can be started and stopped as often as desired within the current call.

➔ To temporarily freeze the streaming video, without exiting from the video stream:

1. Press the **Enter** button . This freezes the video image.
2. Press the **Enter** button again to restart live video.
3. The message "**Video resumed**" appears.

*If the device is sharing an image when the stream is resumed, then the video stream resumes on the Onsight Connect Call window, but the captured image remains in the Onsight Device's Viewfinder until image sharing is ended by either briefly pressing the **Capture** button, or selecting **End Still Image Sharing** from the **Image Shared** icon .*

5.2 Setting the Subject Audio Source and Volumes

The Onsight Device provides two audio channels: one for Subject Audio and one for VoIP operator communication.

Subject Audio is the unprocessed sound coming from the subject. The sound (Subject Audio) being captured and streamed with the video is captured by the Onsight Device's built-in microphone or from an external audio source connected to the Onsight Device's Audio Line-in port. This allows the Onsight Device to capture and stream audio that is time-synchronized with the video.

The Audio Line-in port is standard for the Onsight 1000 (see paragraph 1.6.1 on page 3). For the Onsight 2000/2500, Audio Line-in is located on the I/O Sled accessory (see paragraph 1.7.3 on page 10).

For the Onsight 2000/2500 Device, the Audio Line-in port can be configured to accept either an external microphone or line-level audio input.

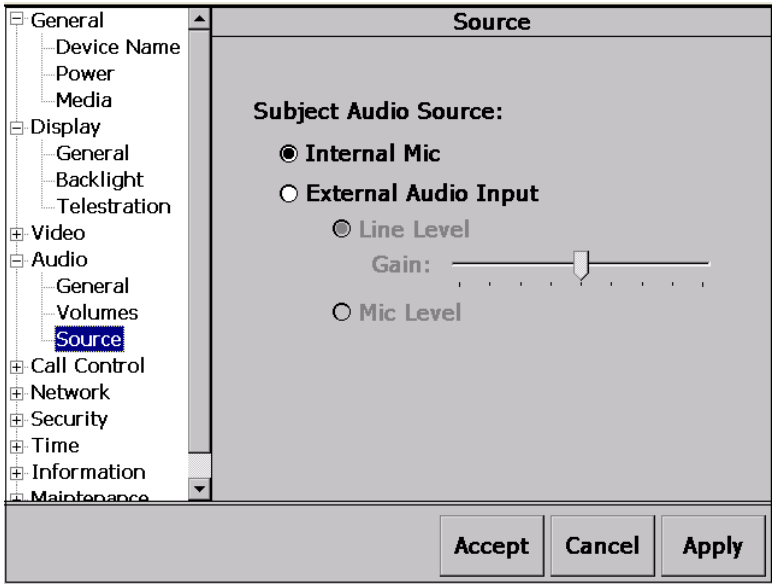
The **Stream** button also starts and stops streaming of Subject Audio, just as in video streaming described in paragraph 5.1.

For audio communication see paragraph 3.5, on page 29.

➔ To set which source will act as the Subject Audio source:

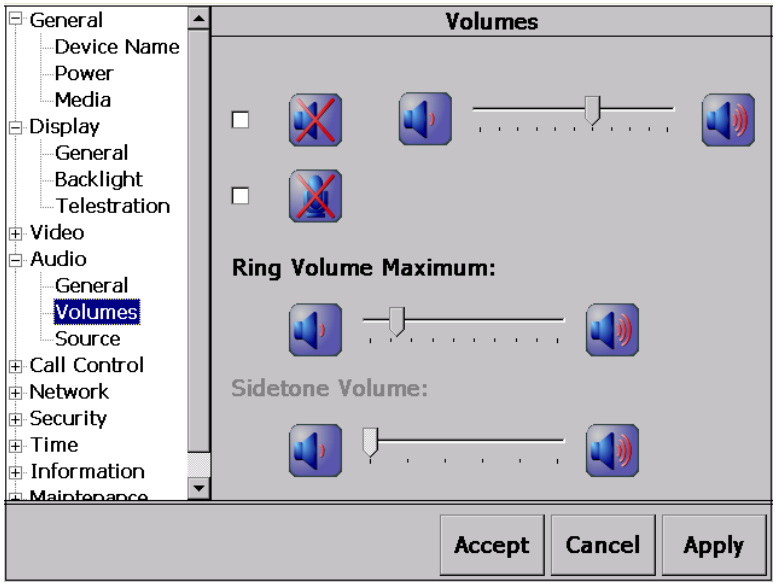
1. From the standard Viewfinder display window, press the **Display** button three times (or until the **Main Menu** appears).

2. Tap the **Configuration** option with the stylus to display the **Configuration** screen.
3. Select **Audio** and then select **Source**.
4. This screen allows selection of the **Subject Audio Source** and Microphone or Line-in level inputs. Select **Mic Level** (Onsight 2000/2500 only) when using an external microphone. Use **Line Level** when using an external audio source and then adjust the gain for the best Subject Audio volume. Select **Internal Mic** for the internal microphone.



➔ To set audio volume levels:

1. From the standard Viewfinder display window, press the **Display** button three times (or until the **Main Menu** appears).
2. Tap the **Configuration** option with the stylus to display the **Configuration** screen.
3. Select **Audio** and then select **Volumes**.
4. This screen allows you to control speaker volume and microphone mute, as well as ring volume and sidetone volume. Note that if the microphone mute ( ) checkbox is selected then both voice and subject audio are muted.



5.3 Using S-Video

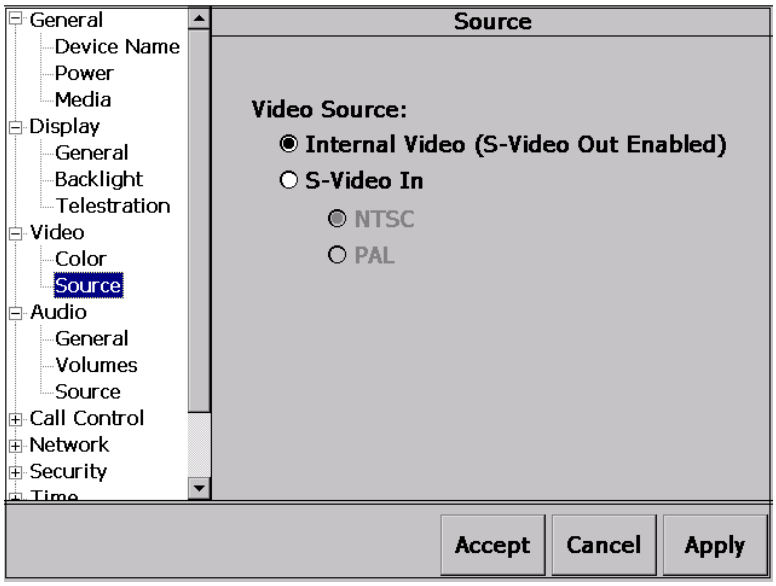
For the Onsight 2000/2500, the S-Video connection can be configured as either an input (to accept video from another S-Video device) or an output (to provide video to another S-Video device). Most Onsight 1000 models provide S-Video In only. For Onsight 1000 S-Video Out capability, please contact Librestream.

When using the S-Video input on the Onsight Device make sure to connect and power up the other video source before switching the Onsight Device's ***Video Source*** *setting to* ***S-Video In****.*

For the Onsight 2000/2500, S-Video is only available on the I/O Sled accessory. For more information on using the I/O Sled, see paragraph 1.7.3 on page 10.

➔ To select the video source:

1. From the standard Viewfinder display window, press the **Display** button three times (or until the **Main Menu** appears).
2. Tap the **Configuration** option with the stylus to display the **Configuration** screen.
3. Select **Video** and then select **Source**.
4. This screen allows you to select either **Internal Video** or **S-Video In**.



The S-Video type (NTSC or PAL) must be configured to correctly match the external S-Video device.

5.4 Turning Illumination On or Off

The front illumination light on the Onsight 1000 can either be turned on or off.

The illumination ring on the Onsight 2000/2500 can be used to provide extra lighting in dim lighting situations. There are two light settings that trigger a different set of lights on the illumination ring.

➔ To adjust illumination levels:

1. Use the **Illumination** button located on the Navigation pad on the back of the Onsight Device.
2. Toggle the light settings:
   - Normal – optimized for distant objects()
   - Macro – optimized for close-ups () (Onsight 2000/2500 only)
   - Off – turns the light off

Note that if the Onsight Device is displaying a configuration or directory screen, the **Illumination** button operates as a right arrow key. In this case, press and hold the **Function** button (Onsight 2000/2500 only), then press the **Illumination** button to adjust the light setting.

Tip For the Onsight 2000/2500, go to the **Main Menu > Status Menu > Camera Status** screen to adjust the level of illumination.

5.5 Adjusting Zoom Levels

➔ To adjust zoom levels:

1. Use the **Zoom** buttons located above the Navigation pad on the back of the Onsight Device.
   - To adjust the zoom one step at a time, press and release the **Minus** (–) button (zoom out) or the **Plus** (+) button (zoom in).
   - To adjust zoom levels at a faster rate, press and hold the **Minus** (–) or **Plus** (+) button, and release it when the zoom level is where you need it.

   The minimum focusing distance changes with the zoom level. As you zoom in, the minimum focus distance moves out. For example, if you are close to an object and zoom in on it, the object will become out of focus if you zoom in too far. The focus adjusts automatically when zooming unless the Onsight Device is in **Manual Focus** mode.
2. If you need to get very close to your subject, set the zoom level to 1x (minimum zoom) and move the Onsight Device until you reach the desired image size. This will ensure that you achieve the best focus.

5.6 Focusing

5.6.1 Automatic Focus

The Onsight Device normally operates in automatic focus mode and will focus on subjects centered in the Viewfinder. Focus will continuously update as the distance between the subject and the lens changes or as zoom is adjusted.

There are situations where manual control is desired to fine tune the focus, particularly for objects not centered in the Viewfinder. Manual focus control is described in paragraph 5.6.2, Manual Focus, on page 38.

Note that zoom and focus controls are available regardless of whether the Viewfinder is currently displayed.

5.6.2 Manual Focus

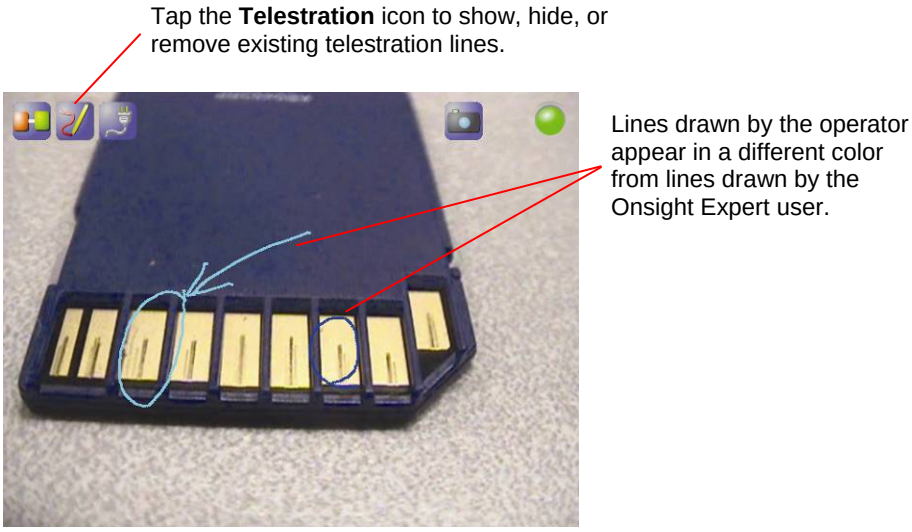
➔ To set the focus manually:

1. Use the **Zoom** buttons in combination with the **Manual Focus** MF button.
2. Refer to the table below for an explanation of the various manual focus options:

Manual focus options	Instruction
Switch to manual focus and increase or decrease manual focus by one step.	While pressing and holding the **Manual Focus** button, press and release a **Plus** (+) or **Minus** (–) button once. When you release the **Manual Focus** button, the Onsight Device remains in manual focus mode, locked at the focus level you set. Note that the **Manual Focus Mode** icon MF now appears on the screen.
Switch to manual focus and increase or decrease manual focus at a standard rate.	While pressing and holding the **Manual Focus** button, press and hold a **Plus** (+) or **Minus** (–) button until you reach the setting you want. Then release the buttons. When you release the **Manual Focus** button, the Onsight Device remains in manual focus mode, locked at the focus level you set. Note that if you are already in manual focus mode (the **Manual Focus Mode** icon MF will be shown on the screen), then it is not necessary to hold down the **Manual Focus** button while using the **Plus** (+) or **Minus** (–) buttons.
Switch from manual focus to automatic focus mode.	Press and release **Manual Focus** button without pressing **Plus** (+) or **Minus** (–).
Set a temporary focus lock.	Press and hold **Manual Focus** button without pressing **Plus** (+) or **Minus** (–). The focus stays locked for as long as you continue to hold the **Manual Focus** button. Automatic focus mode resumes when you release it.

5.7 Telestration (Drawing Lines on the Viewfinder)

Telestration permits the Onsight Device operator or the Onsight Connect user to draw freehand lines on a still image, recording, or live media stream using the stylus. Telestration markings appear simultaneously on both the Onsight Device and the Onsight Connect user's display. The system is configured so that lines drawn by the Onsight Device operator and the Onsight Connect users appear in different colors.


Tap the **Telestration** icon to show, hide, or remove existing telestration lines.
Lines drawn by the operator appear in a different color from lines drawn by the Onsight Expert user.

Telestration is available on the Viewfinder on both streaming media and still images. It is disabled if the Viewfinder is hidden (e.g. in the configuration or directory screens).

Once telestration lines have been added, a **Telestration** icon appears in the Viewfinder.

5.7.1 Telestration while Streaming Live Video

Telestration can be made prior to or during streaming. Once streaming begins, any telestration made prior to the start of streaming will be seen by the Onsight Connect call participants.

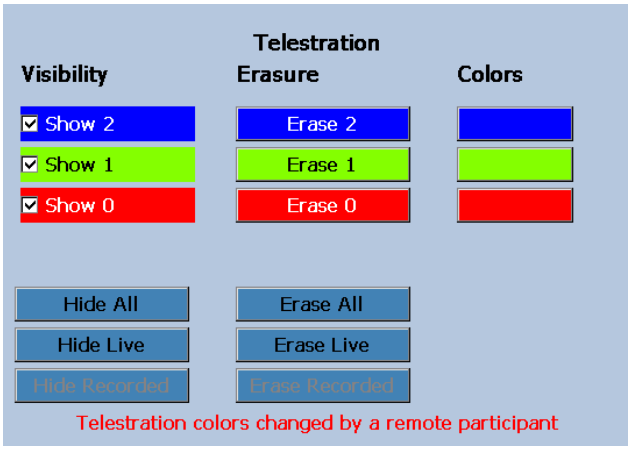
➔ To start live streaming:

1. Press the green **Share** button on the top of the Onsight Device to start streaming video.

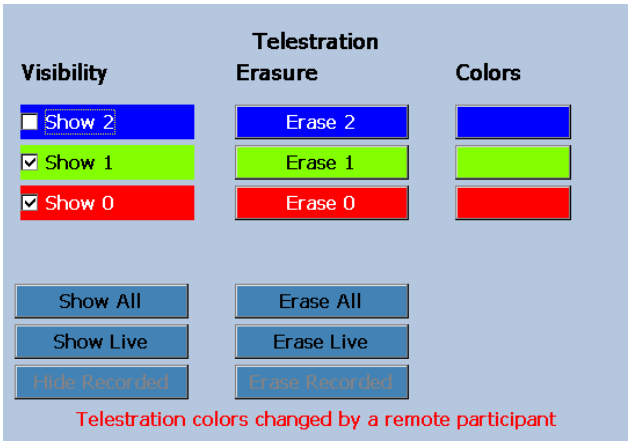
➔ To display the **Telestration** menu:

1. Ensure that there is telestration on the viewfinder.
2. Tap the **Telestration** icon .

3. Options in the menu allow you to select which telestration lines to show or hide and which lines to erase.



All call participants selected
(note the **Hide All** and **Hide Live** options)



Not all call participants selected
(note the **Show All** and **Show Live** options)

➔ To change telestration visibility preferences:

1. Click on the checkbox next to the user to enable telestration visibility. The initial default state is that all participants are checked (☑).

Showing *or* ***Hiding*** *telestration is specific to the local device user. The telestration on Onsight Connect will not be affected.*

Visibility	Result
Show 2	**Show 2** is the device user in this example. If the checkbox has been selected (☑), the *live* telestration by the device user will be shown on the Viewfinder. If the checkbox has not been selected (☐), the *live* telestration by the device user will not be shown on the Viewfinder.
Show 1	**Show 1** is the Onsight Connect conference host in this example. If the checkbox has been selected (☑), the *live* telestration by the Onsight Connect conference host will be shown on the Viewfinder. If the checkbox has not been selected (☐), the *live* telestration by the Onsight Connect conference host will not be shown on the Viewfinder.
Show 0	**Show 0** is an Onsight Connect participant in the conference call in this example. If the checkbox has been selected (☑), the *live* telestration by the Onsight Connect participant will be shown on the Viewfinder. If the checkbox has not been selected (☐), the *live* telestration by the Onsight Connect participant will not be shown on the Viewfinder.
Hide All	If **Hide All** is selected, all telestration is removed from the Viewfinder.

Visibility	Result
Hide Live	If **Hide Live** is selected, all *live* telestration is removed from the Viewfinder.
Show All	If **Show All** is selected, all telestration is shown on the Viewfinder.
Show Live	If **Show Live** is selected, all *live* telestration is shown on the Viewfinder.

➔ To select erase telestration preferences:

1. Tap the button of the participant in the **Erasure** column.

*Erasing telestration affects **all** call participants.*

Erasure	Result
Erase 2	**Erase 2** is the device user in this example. If **Erase 2** is selected, all device user telestration is erased.
Erase 1	**Erase 1** is the Onsight Connect conference host in this example. If **Erase 1** is selected, all Onsight Connect conference host telestration is erased.
Erase 0	**Erase 0** is an Onsight Connect participant in the conference call in this example. If **Erase 0** is selected, all telestration of the Onsight Connect participant is erased.
Erase All	If **Erase All** is selected, all telestration is erased.
Erase Live	If **Erase Live** is selected, all *live* telestration is erased.

5.7.2 Telestration while Sharing Recorded Video

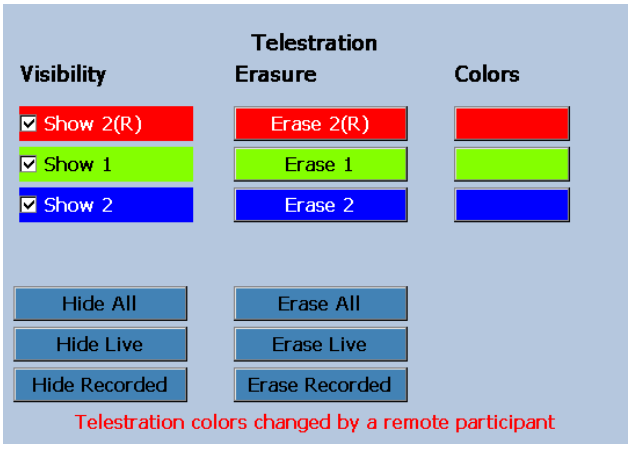
➔ To start streaming recorded video:

1. See paragraph 5.9.3, Sharing a Video Recording, on page 51.

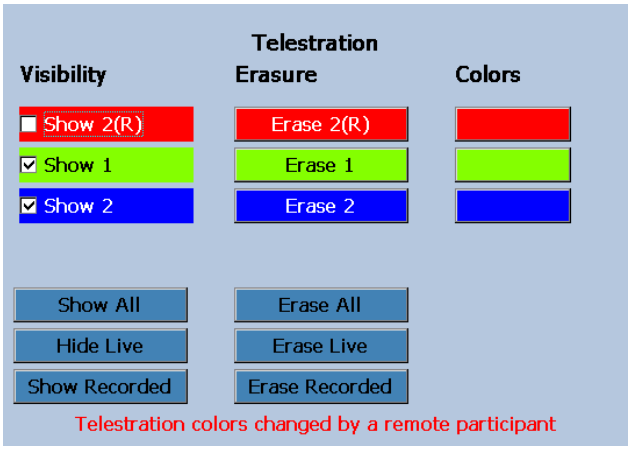
➔ To display the **Telestration** menu:

1. Ensure that there is telestration on the viewfinder.
2. Tap the **Telestration** icon .

3. Options in the menu allow you to select which telestration lines to show or hide and which lines to erase.



All call participants selected
(note the **Hide All**, **Hide Live**, and **Hide Recorded** options)



Not all call participants selected
(note the **Show All**, **Hide Live**, and **Show Recorded** options)

➔ To change telestration visibility preferences for a recorded video:

1. Click on the checkbox next to the user to enable telestration visibility.

Showing or Hiding telestration is specific to the local device user. The telestration on Onsight Connect will not be affected.

Erasing telestration on a recorded video is not permanent.

Visibility	Result
Show 2	**Show 2** is the device user in this example. If the checkbox has been selected (☑), the *live* telestration by the device user will be shown on the Viewfinder. If the checkbox has not been selected (☐), the *live* telestration by the device user will not be shown on the Viewfinder.
Show 2(R)	**Show 2(R)** is the device user in this example. If the checkbox has been selected (☑), the *recorded* telestration by the device user will be shown on the Viewfinder. If the checkbox has not been selected (☐), the *recorded* telestration by the device user will not be shown on the Viewfinder.
Show 1	**Show 1** is the Onsight Connect conference host in this example. If the checkbox has been selected (☑), the *live* telestration by the Onsight Connect conference host will be shown on the Viewfinder. If the checkbox has not been selected (☐), the *live* telestration by the Onsight Connect conference host will not be shown on the Viewfinder.
Hide All	If **Hide All** is selected, *all* telestration is removed from the

Visibility	Result
	Viewfinder.
Hide Live	If **Hide Live** is selected, all *live* telestration is removed from the Viewfinder.
Hide Recorded	If **Hide Recorded** is selected, all *recorded* telestration is removed from the Viewfinder.

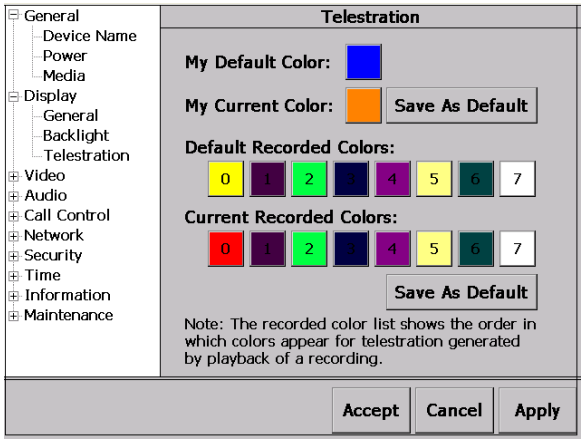
5.7.3 Telestration Colors

Telestration colors can be changed by using the **Configuration** menu, the **Telestration** icon, or the **Call Status** screen. They can be edited for all call participants.

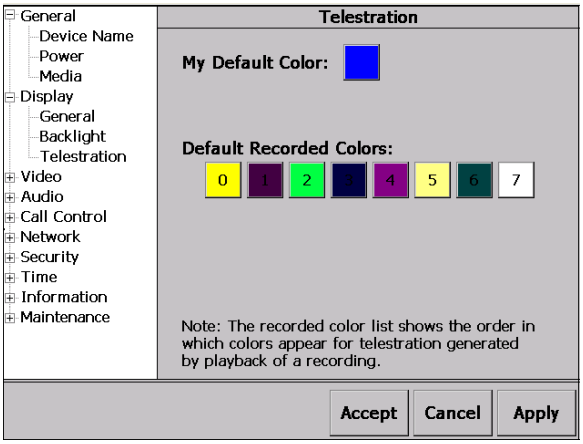
The color changes are also updated to the same colors on all call participants.

➔ To change color preferences using the menus:

1. From the standard Viewfinder display window, press the **Display** button three times (or until the **Main Menu** appears).
2. Tap **Configuration**.
3. Tap **Display** and then **Telestration**.
4. The **Telestration** screen appears.

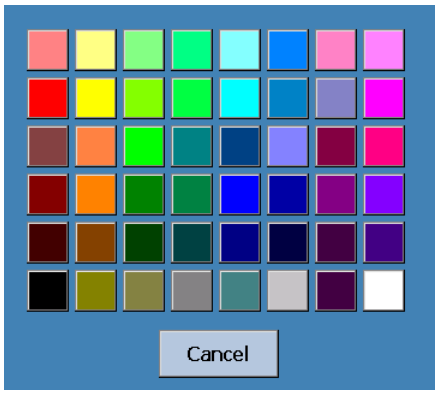


My Current Color and **Current Recorded Colors** are shown if there was a color change made from the default color.



My Current Color and **Current Recorded Colors** are *not* shown *until* there is a color change made from the default color.

5. Tapping a color will bring up a **Colors** palette from which a new color can be selected.



6. Any color change made to **My Default Color** becomes the new default color. Alternatively, the **My Default Color** can be changed to a new default color by selecting **Save As Default** for **My Current Color**:
   - **My Default Color** becomes the new default color if it is changed.
   - **My Current Color** becomes **My Default Color** if **Save As Default** is selected.

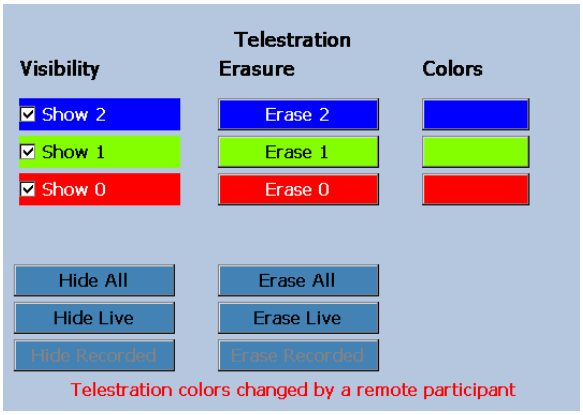
   *If an endpoint changes your color (**My Current Color**), this is only a temporary color change, and your color will revert back to the default color when the call is disconnected, unless **Save As Default** has been selected.*
7. Any color change made to **Default Recorded Colors** becomes the new default color. Alternatively, the **Default Recorded Colors** can be changed to a new default recorded color by selecting **Save As Default** for **Current Recorded Colors**:
   - **Default Recorded Colors** becomes the new default color if it is changed.
   - **Current Recorded Colors** becomes **Default Recorded Colors** if **Save As Default** is selected.

   *If an endpoint changes the current recorded color (**Current Recorded Colors**), this is only a temporary color change, and the color will revert back to the default recorded color (**Default Recorded Colors**) when the call is disconnected, unless **Save As Default** has been selected.*
8. Select **Accept**, **Cancel**, or **Apply**.

   *If you want to accept the change in color, but wish to stay in the **Telestration** screen, then **Apply** should be selected.*

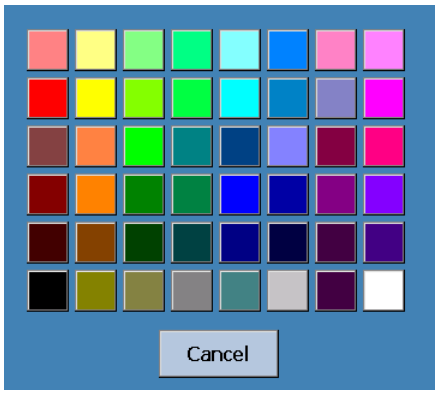
➔ To change color preferences using the **Telestration** icon:

1. Tap the **Telestration** icon .
2. The **Telestration** screen appears.



3. Tap the desired **Colors** button.

4. Tapping a color will bring up a **Colors** palette from which a new color can be selected for the selected call participant.



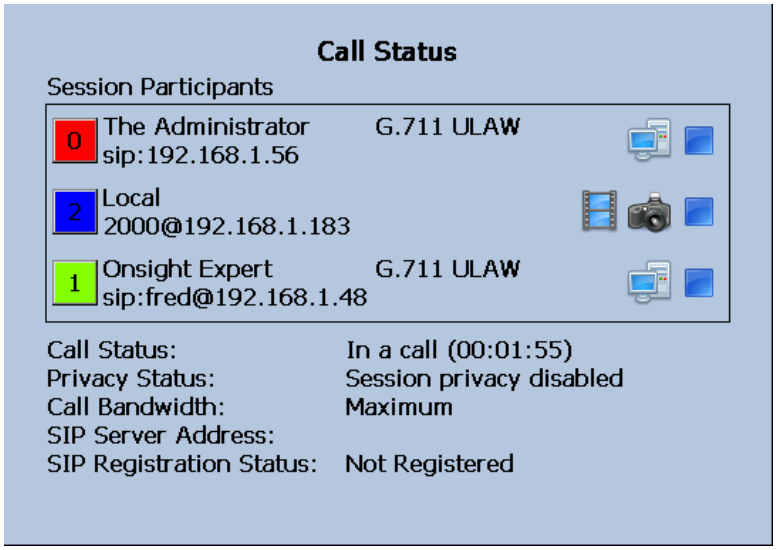
5. To save the color change, tap the **Telestration Colors** screen.

When the call is disconnected, the color will revert back to the default color.

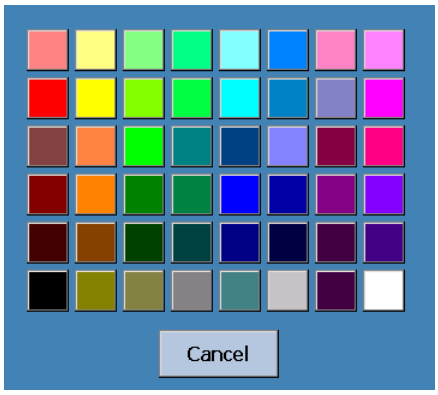
Tip To save the color change as a default color, use the **Main Menu > Configuration > Display >Telestration** screen.

➔ To change the color preference using the **Call Status** screen:

1. Tap the **Call Connected** icon .
2. The **Call Status** screen appears with information on all call participants.



3. Tapping a color will bring up a **Colors** palette from which a new color can be selected for the selected call participant.



4. The color change is temporary. The default colors will re-appear when in a new call, or if the Onsight device is powered on again.

Tip To save your color change as a default color, use the **Main Menu > Configuration > Display >Telestration** screen.

5.8 Capturing and Sharing Images

The Onsight Device can capture still images for local viewing; share the captured image live with Onsight Connect (see paragraph 5.8.2, Sharing a Live Image, on page 47); or share a captured image with Onsight Connect at a later time (see paragraph 5.8.3, Sharing a Saved Image, on page 49). Shared images can be seen by all endpoints in a conference call.

Images shared during a session while privacy is enabled are maintained in transient storage and are never written to permanent storage. While a call is active, images are accessible in the temporary storage area within the image viewing window. When the call is terminated all temporary images are destroyed.

5.8.1 Capturing Still Images for Local Viewing Only

➔ To capture a still image without sharing:

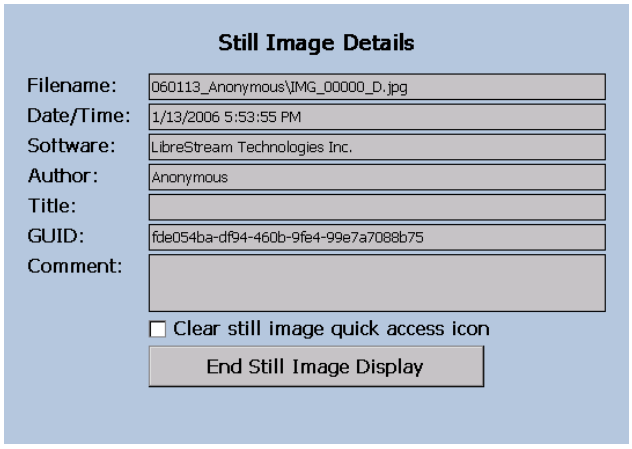
1. Ensure you are disconnected from Onsight Connect.
2. Press the **Capture** button on the top of the Onsight Device (the **Capture** button behaves like the shutter button on a digital camera).

   Note that if there are telestration lines, these are captured as part of the image.
3. The captured image is displayed briefly on the Viewfinder and then cleared.
4. To view the image taken, tap on the **Start Image Display** icon .
5. The message "**Image display started**" appears and the image is displayed on the Viewfinder.
6. The image is saved locally in the session folder on the SD card.

Tip If you want to view the captured image immediately on the Viewfinder, press and hold the **Capture** button for a few seconds when taking the picture. The message "**Image display started**" will appear and the still image will remain on the Viewfinder.

➔ To end still image viewing:

1. Tap the **Image Displayed** icon .
2. The **Still Image Details** screen will appear.



3. Tap **End Still Image Display** to clear the image from the Viewfinder. At this point you can also clear the **Image Displayed** icon by checking off the **Clear still image quick access icon** checkbox.

   Another way to clear the image from the Viewfinder is to briefly press the **Capture** button instead of tapping the **Image Displayed** icon.

4. The message **"Image display ended"** appears and the image is cleared from the Viewfinder.
5. If the **Image Displayed** icon was not cleared in step 3 then you can view the image again by tapping the **Start Image Display** icon .

5.8.2 Sharing a Live Image

The Onsight Device and Onsight Connect endpoint can collaborate by sharing images with each other while in a call, whether video sharing is on or off.

➔ To capture and share an image:

1. Connect to an Onsight Connect endpoint.
2. Press the **Capture** button on the top of the Onsight Device (the **Capture** button behaves like the shutter button on a digital camera).

   Note that if there are telestration lines, these are captured as part of the image.
3. The captured image is displayed briefly on the Viewfinder and then cleared. Any telestration will remain.
4. To view the image taken, tap on the **Start Image Share** icon .
5. The message "**Image sharing started**" appears and the image is displayed on the Viewfinder and all connected Onsight Connect endpoint Image Viewers.

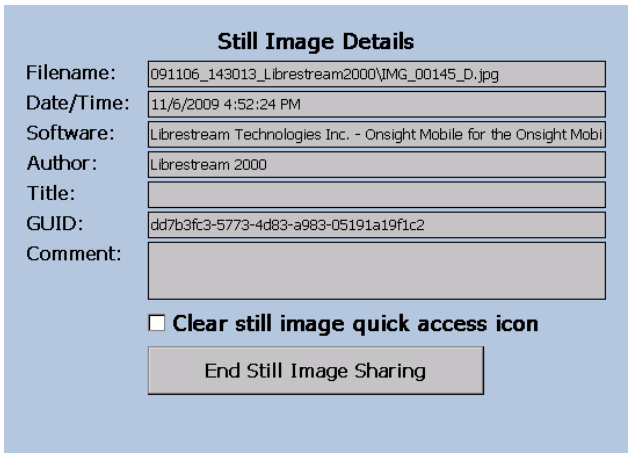
*If streaming and the **Configuration > General > Media** option "**While sharing an image, the video: Stops**" is set then when a capture occurs, the streaming video is turned off in the Viewfinder and the Onsight Connect Call window. Two messages appear: "**Preparing to share the image**" and "**Stopping the stream**". Streaming video will return once the **Capture** button is pressed or you tap on the **Image Shared** icon to end image sharing. For more information on the video options in the **Media** menu, see paragraph 6.5, Configuration, on page 59.*

6. The image is saved locally in the session folder on the SD card.

If you want to share the image and view the captured image immediately on the Viewfinder, press and hold the **Capture** button for a few seconds when taking the picture. The message "**Image sharing started**" will appear and the shared image will remain on the Viewfinder and on the Onsight Connect endpoint Image Viewer.

➔ To end sharing:

1. Tap the **Image Shared** icon .
2. The **Still Image Details** screen will appear.



3. Tap **End Still Image Sharing** to clear the image from the Viewfinder. At this point you can also clear the **Image Shared** icon by checking off the **Clear still image quick access icon** checkbox.

*Another way to clear the image from the Viewfinder is to briefly press the **Capture** button instead of tapping the **Image Shared** icon.*

4. The message **"Image sharing ended"** appears.

The image will still remain on the Onsight Connect endpoint's Image Viewer.

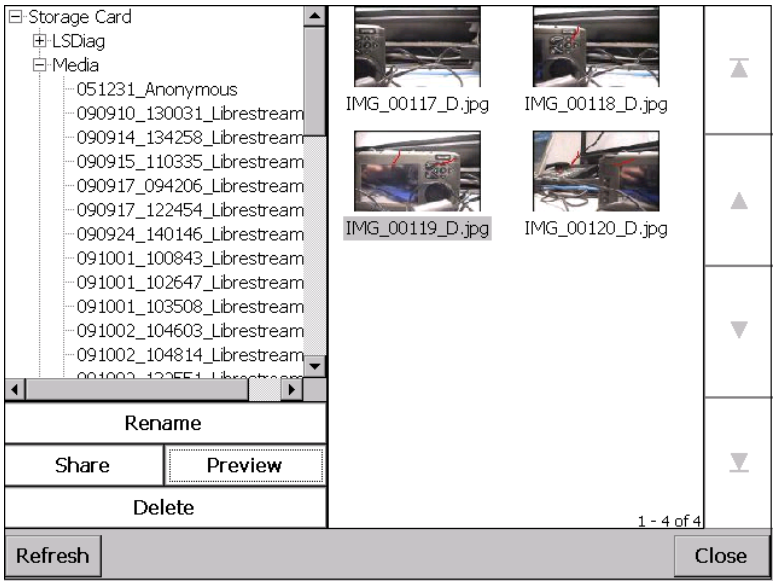
*If previously streaming and **While sharing an image, the video: Stops** was set, streaming will now continue again.*

5. If the **Image Shared** icon was not cleared in step 3 then you can view the image again by tapping the **Start Image Share** icon .

5.8.3 Sharing a Saved Image

➔ To share a saved image:

1. Connect to an Onsight Connect endpoint.
2. Press the **Display** button repeatedly until the **Main Menu** appears.
3. Tap **File Browser**.
4. The **File Browser** window appears.



5. Tap the folder containing the image that you want to share. Image thumbnails appear in the pane to the right.
6. Select the image you want to share and tap **Share** in lower left pane.

   *You can preview the image before sharing it by selecting the image and then tapping **Preview**.*

7. The message "**Image sharing started**" will then appear.
8. The Onsight Device sends the image to Onsight Connect endpoint.
9. To end sharing, refer to the instructions on page 48.

5.9 Recording and Playing Videos

The Onsight Device can record video to an SD memory card independent of its call state. That is, it can record while connected, disconnected, or calling. The only time that it cannot record is while it is playing back a previously recorded video.

Recording can be disabled for privacy or security reasons. When recording is disabled, video, audio and images can not be stored either internally or to removable media. If recording is disabled by any call participant then recording is disabled for all participants. If recording is enabled, either the or icon will be displayed.

The Onsight Device is able to record:

- video
- subject audio
- 2-way voice
- images
- telestration

Do not remove the SD card while recording. This can corrupt the card data.

5.9.1 Recording a Video

Video recordings include any telestration lines made during the recording. Telestration lines will appear when you play or stream a video recording, although they will be in different colors.

When you share an image while recording a session, the image appears in the recording.

➔ To record a video:

1. Press the **Record** button on the back of the Onsight Device.
2. The message "**Please wait – record is starting**" appears briefly. The **Record** icon in the top right of the Viewfinder appears when recording starts.
3. To stop recording, press the **Record** button again.

*The Onsight Device saves the recording in the location on the SD card specified in **Main Menu > Configuration > General > Media**. See paragraph 6.5, Configuration, on page 59 for more information. The file name is based on the date and time of the recording.*

5.9.2 Playing a Video Recording Locally (not in a Call)

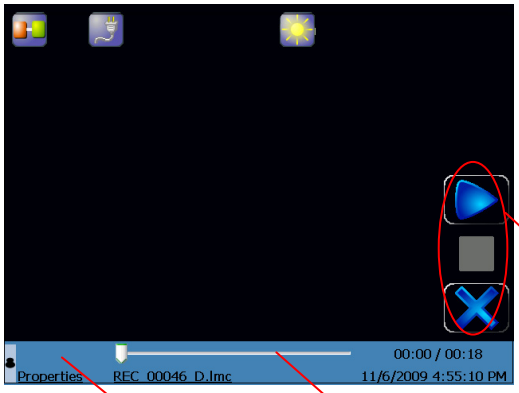
➔ To play back a video just recorded or to replay a previously recorded video:

1. Press the **Display** button on the back of the Onsight Device three times to display the **Main Menu**.
2. Tap **File Playback** or tap **File Browser** to select a recorded video to play.

Use **File Playback** to play the last video recorded or the last video played, whichever is more recent.

*See paragraph 6.4.2, Playing Videos, on page 58 for information on playing a video from the **File Browser**.*

3. The **Video Playback** screen appears.



Playback controls

Status bar

Playback slide bar to advance the video recording.

	Play
	Pause playback
	Stop playback
	Return to Viewfinder

You can hide the status bar located at the bottom of the screen by tapping the **Pin** icon located in the left corner. This is useful if telestration appears at the lower part of the screen as it may get covered up by the status bar.

4. Tap the **Play** icon to start the video.

If you don't want to play the entire video, you can use the playback slide bar to move to a different point in the recording, during play or while paused. When you find the desired place, press the **Play** icon to continue playing the recorded video.

To switch to the **File Browser** from the **Video Playback** screen, tap the file name just under the track playback slide bar.

5. When finished, tap to exit back to the Viewfinder.

5.9.3 Sharing a Video Recording

You can stream previously recorded video to Onsight Connect endpoints.

When streaming video recordings, the Onsight Device adjusts the current stream parameters to match the frame rate, resolution, bit rate, etc. of the recording.

Onsight Connect endpoints can also stream a previously recorded video to the Onsight Device. Playback controls operate the same as when the Onsight Device is streaming the video.

You cannot stream live video and a recording simultaneously.

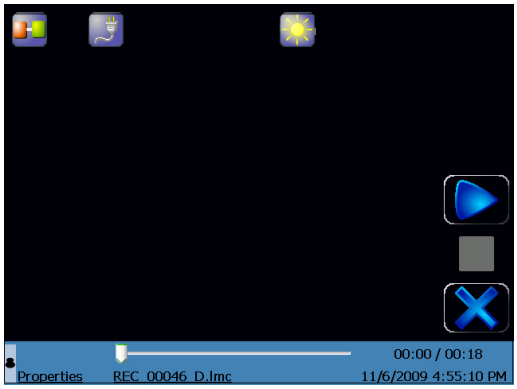
➔ To share a recorded video:

1. Connect to Onsight Connect endpoint.
2. If the Onsight Device is streaming live video, press the **Sharing** button on the top of the Onsight Device to stop streaming.
3. Press the **Display** button on the back of the Onsight Device three times to display the **Main Menu**.
4. Tap **File Playback** or tap **File Browser** to select a recorded video to play.

Use **File Playback** to play the last video recorded or the last video played, whichever is more recent.

*See paragraph 6.4.2, Playing Videos, on page 58 for information on playing a video from the **File Browser**.*

5. The **Video Playback** screen appears.



	Play
	Pause playback
	Stop playback
	Return to Viewfinder

6. Press the **Play** icon or the **Sharing** button to start playing and streaming the video.

   If the video contains a captured image, the Viewfinder will display the captured image. Onsight Connect endpoint will continue to see the video since the image will be displayed in the Onsight Connect endpoint's Image Viewer.

   If you don't want to stream the entire video, you can use the playback slide bar to move to a different point in the recording, during play or while paused. When you find the desired place, press the **Play** icon to continue streaming the recorded video.

   To switch to the **File Browser** from the **Video Playback** screen, tap the file name just under the playback slide bar.

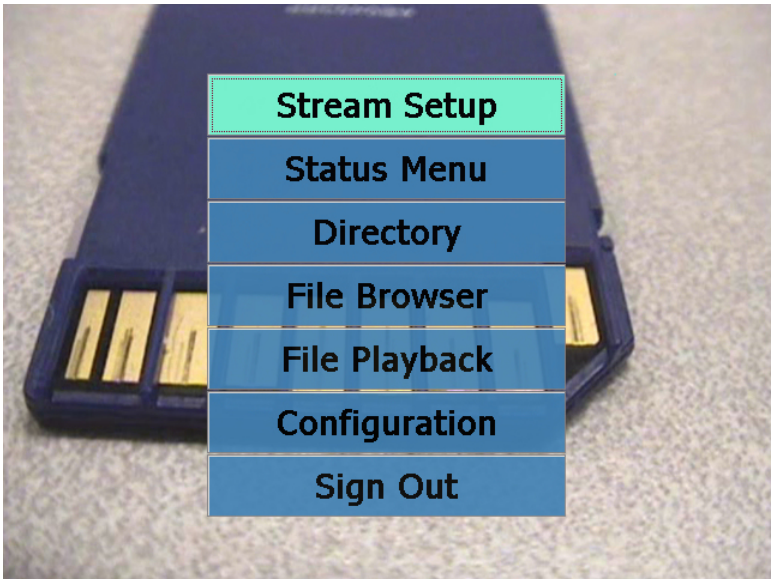
7. When finished, tap ✕ to exit back to the Viewfinder.

6 Menus

The Onsight Device has a menu system that allows operators to check and update system settings, view status, access the directory or sign out from the Onsight Device.

Note that system configuration and other setup tasks are usually performed by your Onsight system administrator and are described in the *System Administration Manual*.

To display the **Main Menu**, start from the default Viewfinder display, and press the **Display** button three times.

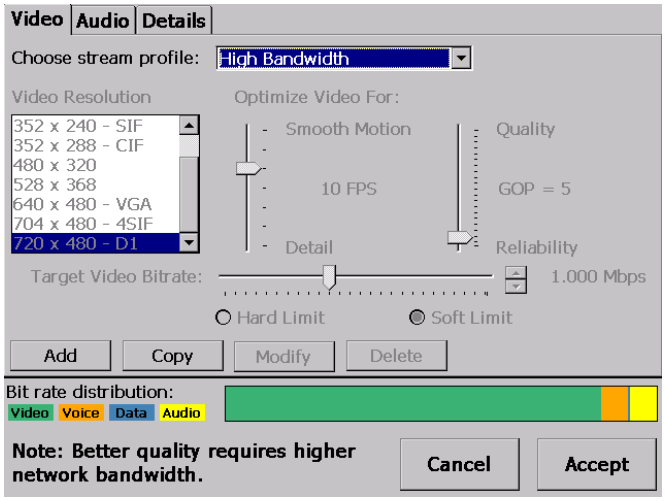


You can display the menus at any time, even while sharing media to Onsight Connect endpoints. The person on the receiving end will not see the menus.

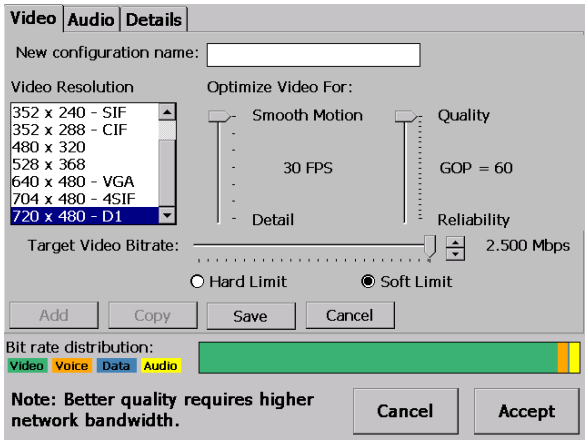
6.1 Stream Setup

➔ To check or change streaming setup options:

1. Starting from the default Viewfinder display, press the **Display** button three times to display the **Main Menu**.
2. From the **Main Menu**, tap **Stream Setup** and select a built-in configuration from the **Choose stream profile** drop-down menu and then select **Accept**.



3. To set up a custom configuration, tap **Add** to display the custom stream configuration window. This allows an operator to configure the stream parameters for circumstances where the predefined settings are not adequate.



4. Select your configuration options, and then select **Accept**.

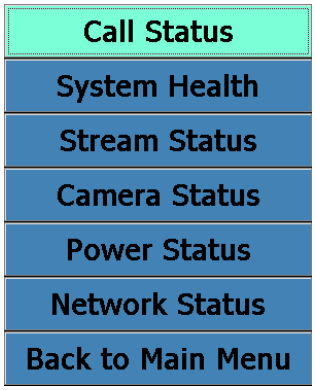
The stream quality can also be selected by Onsight Connect endpoints.

6.2 Checking Status

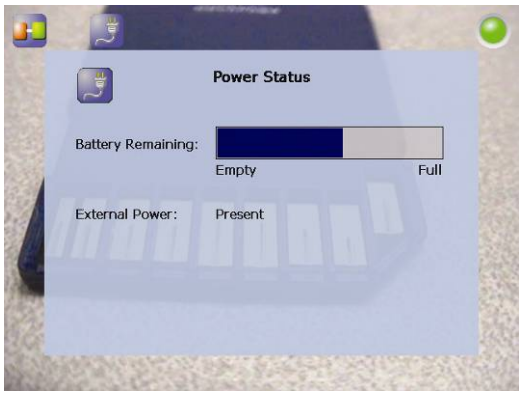
The **Main Menu** offers a number of options for checking status, as shown below.

➔ To view status information:

1. Starting from the default Viewfinder display, press the **Display** button three times to display the **Main Menu**.
2. From the **Main Menu**, tap the **Status Menu** option to display a second menu with these status options:



3. Tap a status option to view a **Status** screen for that item. For example, see **Power Status** below.



4. To dismiss a **Status** screen and return to the **Status** menu, tap it with the stylus, or press the **Display** button.

Contact your Onsight system administrator for more information on any particular status item and what it means.

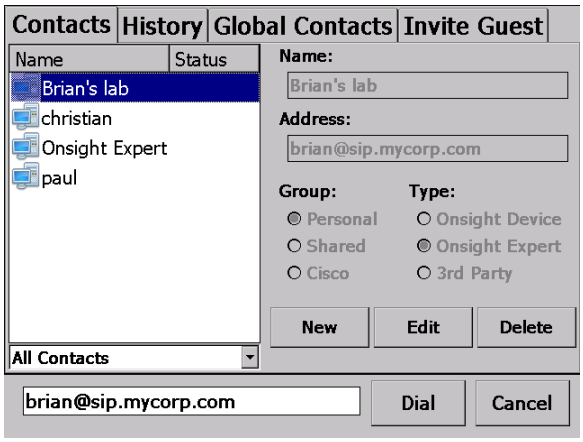
6.3 Viewing Contacts

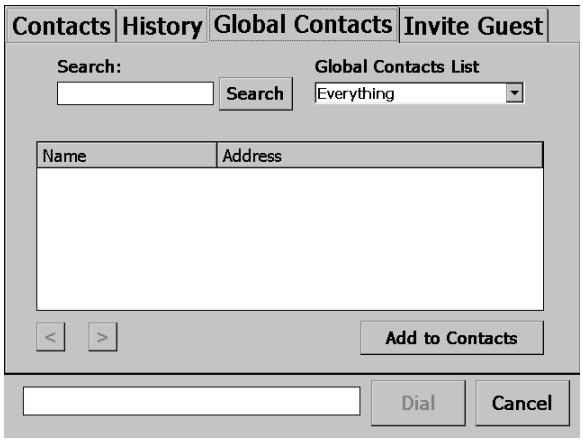
6.3.1 Contacts

The **Contacts** directory contain a list of names and addresses that can be called from the Onsight Device. If you are connected to the Onsight Account Service, you can use the **Global Contacts List** and **Search** function in the **Global Contacts** tab to display names of contacts to add to the **Contacts** list. Select one or more names and then click **Add to Contacts** to add these names to your **Contacts** tab.

➔ To display the **Contacts** directory:

1. Starting from the default Viewfinder display, press the **Display** button three times to display the **Main Menu**.
2. From the **Main Menu**, tap **Directory** and then choose either the **Contacts** or **Global Contacts** directory.





3. Select a name and then tap **Dial** to make the call.

   Alternatively, you can press the **Send** button to display the **Contacts** directory, as described in paragraph 3.3, Initiating (Starting) a Call, on page 28.

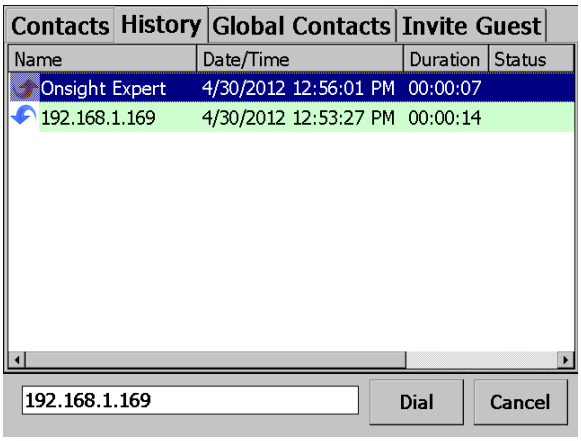
If you are logged in as a user with Onsight administrator privileges, you may edit or delete existing contacts or create new ones. Note that these changes are not forwarded to other devices.

*New contacts are created in the **Personal Group**. Shared contacts are created in the **Shared Group** by Onsight system administrators.*

6.3.2 History

The **History** tab provides a convenient way to review and re-establish a previous call as it lists the most recent calls. The default for the number of calls listed is 20, but this can be changed by the accessing the **Main Menu > Configuration > Call Control > General** screen. For further information, see paragraph 6.5, Configuration, on page 59.

You initiate the call by selecting a name on the list and then tapping **Dial**.



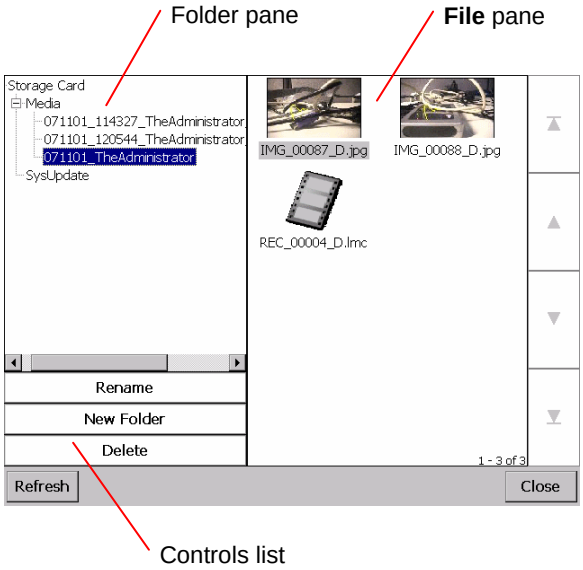
6.4 Managing Files

The **File Browser** allows you to organize and play recorded videos, display and share images, and manage folders and files on the SD memory card.

Tip You can connect the Onsight Device to a PC via the USB cable. This allows easy file transfer from the device's SD memory card to the PC. Note that the device can't be used to record while it is connected to the PC via USB.

➔ To display the **File Browser** directory:

1. Starting from the default Viewfinder display, press the **Display** button three times to display the **Main Menu**.
2. From the **Main Menu**, tap **File Browser** to display the **File Browser** screen.



The **Folder** pane displays the folders in which video recordings and image snapshots are saved. Use the scroll bar to browse through long lists of folders.

The **File** pane displays the image snapshots and video recordings saved in the selected folder on the SD card. Use the scroll arrows on the right to browse through long list of files.

The options in the **Controls** list allow you to:

- Rename folders and files
- Create new folders
- Delete folders and files
- Play video recordings
- Preview still images
- Share still images
- Format the storage card

Session Folders and File Names

When you capture a snapshot or record a video, the Onsight Device creates a session folder on the SD card in which it saves these files. The name of the folder is based on the date, time, and user names using the convention:

yymmdd_hhmmss_Onsight device user

where:

- *yymmdd* is the date of the session
- *hhmmss* is the time that the session started (present only if connected to Onsight Connect endpoints)
- *Onsight device user* is the user name that is logged into the Onsight Device

e.g. 090910_132520_Librestream2000

The snapshot and recording file names are based on their media type, a serial number, the source, and a version number. File names use the convention:

media_serial#_source_version#.extension

where:

- *media* is either IMG for a snapshot or REC for a recording
- *serial#* is a sequential number assigned by the source device
- *source* is either A for Onsight Connect endpoints or D for Onsight Device
- *version#* is a sequential number that is added if an image has been modified during sharing
- *extension* is either *.jpg* for snapshots or *.lmc* for recordings

e.g. IMG_00003_D.jpg (for a local snapshot) or IMG_00003_A.jpg (for a remote snapshot)

File Pane Icons

Files listed in the **File** pane are displayed as either image thumbnails or file icons.

Icon	Description
	Image file. Snapshots usually appear as thumbnails but if the Onsight Device cannot display a thumbnail, it displays the **Image File** icon.
	Video recording file.
	Configuration file (files with an .XML extension)

6.4.1 Rename Files and Folders

➔ To rename a file or folder:

1. Select the file or folder you want to rename.
2. Tap **Rename**.
3. The on-screen keyboard appears.
4. Using the stylus, tap the characters on the keyboard to enter a new name.
5. Tap **Rename** in the **Rename File or Rename Folder** screen, as applicable.

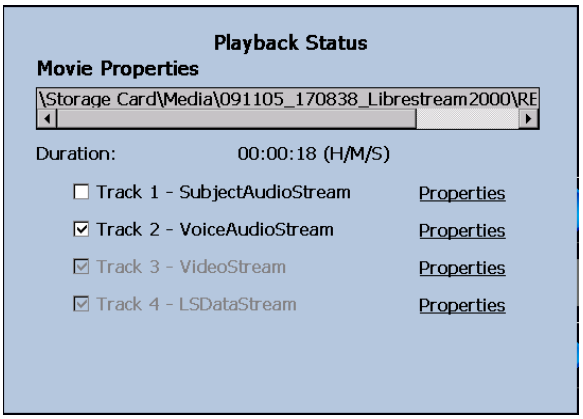
6.4.2 Playing Videos

➔ To play a video:

1. Using the **Folder** and **File** panes, select the video you want to play.
2. Tap **Play**.
3. The video playback controls appear. See paragraph 5.9, Recording and Playing Videos, on page 49 for information on using the **Video Playback** screen.
4. Tap the **Play** icon to start the playback.

When streaming video recordings, the Onsight Device adjusts the current stream parameters to match the frame rate, resolution, bit rate, etc. of the recording.

*By selecting **Properties** in the File Browser for a selected video, the **Playback Status** screen provides information including duration and track properties.*



6.4.3 Viewing an Image Locally

If privacy is required in viewing an image, there are two ways to view that image on the Onsight Device without sharing it with Onsight Connect endpoints.

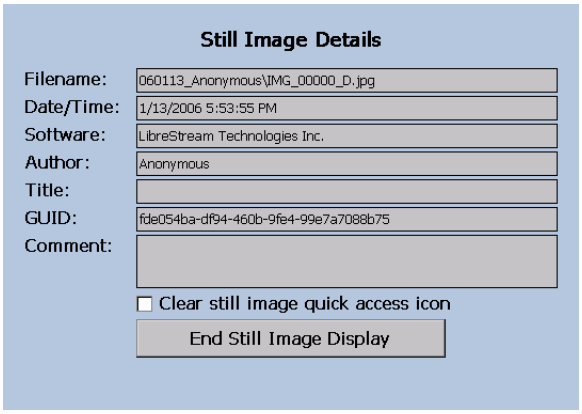
- Disconnect from Onsight Connect endpoints and open or preview the image.
- Preview the image if connected to Onsight Connect endpoints.

➔ To display an image locally (the image is not shared with Onsight Connect endpoints):

1. Open the **File Browser**.
2. Using the **Folder** and **File** panes, select the image you want to view.
3. If disconnected from Onsight Connect endpoints, tap **Open** or **Preview**. If connected to Onsight Connect endpoints, tap **Preview**.
4. The Onsight Device displays the image.

➔ To end still image display:

1. If **Preview** was selected to view the image, tap the image to close the image.
2. If **Open** was selected to view the image, press the **Capture** button *or* tap the **Image Displayed** icon .
3. If the **Capture** button was used to end the still image display then the image is cleared from the Viewfinder, but if the **Image Displayed** icon was selected to end the still image display, then the **Still Image Details** screen appears.



4. Tap **End Still Image Display**.
5. The image is cleared from the Viewfinder.

6.4.4 Sharing an Image with Onsight Connect endpoints

See paragraph 5.8.3, Sharing a Saved Image, on page 49.

6.5 Configuration

*When using the Onsight Account Service, any changes that are made to your contacts, password, and My SIP settings **will be available on any Onsight Device on which you are connected to the Onsight Account Service**.*

➔ To check or update Onsight Device configuration options:

1. Starting from the default Viewfinder display, press the **Display** button three times to display the **Main Menu**.
2. From the **Main Menu**, tap the **Configuration** menu to display the configuration options.
3. From here, follow on-screen instructions to adjust the configuration options as necessary.

The table below is provided as an overview. Please see the *System Administration Manual* for detailed information on Onsight Device configuration.

Your Onsight system administrator may have configured company specific default settings and access rights.

Screen	Configuration Options Overview
General	Adjust the standby timeout (amount of time before the Onsight Device will switch from On to Standby, if it is idle). Specify the location of saved images and video recordings, and video options while sharing an image.
Display	Adjust the brightness of the Viewfinder backlight or recalibrate the touch panel. Change telestration colors.

Screen	Configuration Options Overview
Video	Adjust the video settings of the camera and select the video source (internal camera or external via S-Video connector). Provides option to display the time and date in video.
Audio	Options for controlling volume and mute levels for the speaker. You can set the maximum ring volume (the volume will ramp up to this setting regardless of the overall volume setting of the Onsight Device) and request voice/audio reduced bandwidth usage. You can also select the source for Subject Audio – either the built-in microphone or the Audio line-in connector. The level of the external audio input can be adjusted using the Gain slide bar. The Onsight 2500 provides an option to enable Bluetooth audio.
Call Control	Configure auto answer and the ability of starting video upon connection. Maximum call history number can be selected. SIP, SIP settings, and Bandwidth controls can be adjusted. Enter SIP server information necessary for registering this device. Enter Cisco Presence settings to connect to the Cisco Unified Presence Server. Please see the *System Administration Manual* for detailed instructions.
Network	This screen allows you to adjust Network settings, including options to enable or disable the radio and select radio channels, firewall settings for connection from remote locations, and a hotspot login. In addition, the Onsight 2500 Bluetooth capability can be enabled/disabled from the Network screen. There are options to configure the Onsight Device for remote management by the Onsight Management Suite. Please see the *System Administration Manual* for detailed instructions.
Security	This screen allows you to set default login options and import security certificates. Encryption and Privacy options are selectable.
Time	Follow on-screen instructions to adjust time and date settings.
Information	Onsight Device version and copyright information.
Maintenance	Software updates may be done from this screen (consult the *System Administration Manual*). Change user passwords and import contacts and users. (Note that password changes are not forwarded to other devices.) Call history can be cleared.

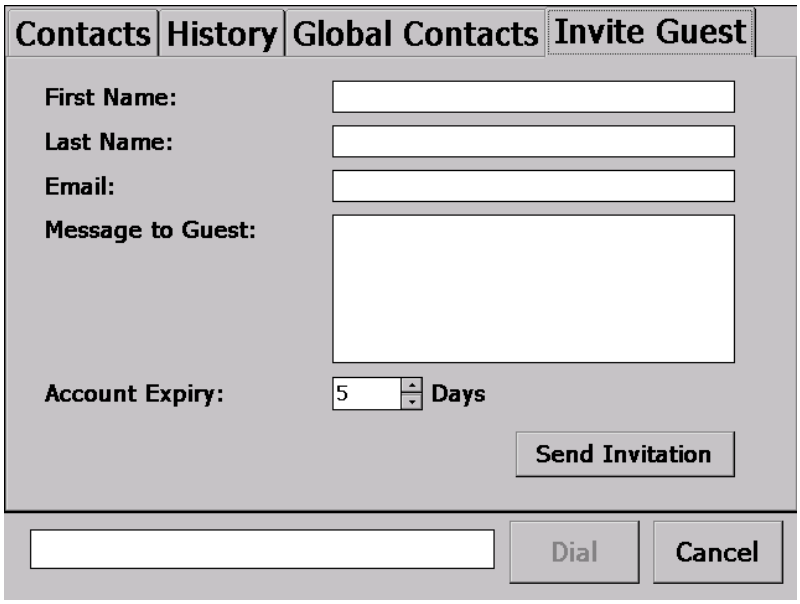
6.6 Invite a Guest

You can invite a guest to join an Onsight video session. The guest will receive an email which provides instructions on how to download and install the Onsight Connect endpoint software.

You must be connected to the Onsight Account Service.

➔ To invite a guest:

1. Starting from the default Viewfinder display, press the **Display** button three times to display the **Main Menu**.
2. From the **Main Menu**, tap **Directory** and then the **Invite Guest** tab.



3. Enter the required information and a message if desired. Select the number of days the guest can use Onsight Connect.
4. Click **Send Invitation**.
5. The guest is automatically added to your **Contacts** tab.

7 Maintaining the Onsight Device

Follow these guidelines to ensure the Onsight Device remains in good working order:

7.1 General Recommendations

- Limit exposure to dust, rain or moisture.
- Protect the Onsight Device from temperature extremes (e.g., do not leave it on an automobile dashboard or on top of a heat source).
- Observe the rated operating and storage environmental specifications.
- The Onsight Device is a precision instrument and must be protected from drop and vibration. Always use the provided wrist lanyard or a neck strap to prevent accidental drop.
- Operate the Onsight Device in a well ventilated area to prevent overheating. Do not operate the Onsight Device in a closed environment where it can overheat (e.g. a sealed plastic bag).
- Always keep the I/O connector protected using the I/O Cover or an I/O Sled (Onsight 2000/2500).

7.2 Inspection/Maintenance/Cleaning

- Inspect the camera and connectors for damage and/or debris/moisture before each use.
- Wipe off any debris/moisture with a clean lint-free cloth and a 50/50 mixture of isopropyl alcohol and distilled water, except for the Display/Touch Screen and interface connectors. Dry off remaining moisture with a fresh lint-free cloth.
- The cleaning requirement for the Display/Touch Screen is in paragraph 7.3 below.
- Do not submerse or pour any liquid onto the product.

7.3 Display/Touch Screen

- LCD displays deteriorate when exposed to ultraviolet rays. Do not leave the Onsight Device in direct sunlight or strong ultraviolet rays for extended periods of time.
- If you store the Onsight Device above or below the rated storage temperature, it may cause permanent damage to the display.
- Extended contact with water drops or finger grease may cause discoloration or spots.
- Protect the screen from scratches. Use the supplied stylus or plastic-tipped pens designed for use on a touch screen. Never use a sharp object on the touch screen.
- Tap the screen lightly. Do not press hard or strike the screen.
- Clean the screen with a soft cloth moistened with distilled water. Do not use commercial or household cleaners as they may damage the screen.
- Consider using a replaceable screen protector to help protect against scratches.

7.4 Optics

- If you will be using the Onsight Device in a dusty or dirty environment, it is recommended that the lens be protected with a screw-on lens filter such as a standard 30mm skylight filter.
- Clean the lens with optical lens cleaning cloth and cleaning solution. Do not use general purpose tissue.

7.5 Ergonomic Recommendations

Important: Follow the recommendations below to minimize risk of ergonomic injury.

- Follow the recommendations of your Health and Safety Officer regarding your company’s safety policies and procedures.
- Whenever possible, reduce or eliminate repetitive motion.
- Maintain a natural position while operating the equipment.

8 Onsight 1000 Technical Specifications

System Architecture

- High performance, multiprocessor architecture optimized for real-time multimedia processing and communications in a handheld form factor
- Microsoft WinCE 5.0
- SIP-based session control
- Windows-based PC Client allowing for easy call initiation and camera control

Physical Characteristics

- Size – 174 (6.85”) mm wide x 96.0 (3.78”) mm high x 87.1 (3.43”) mm deep
- Weight – 720 grams (1.59 pounds)
- Non slip hand grips
- Integrated LED-based illumination
- Integrated water resistant doors for all external connectors

Optical Performance

- CCD image sensor – capable of high precision close-up video
- 10x optical zoom, f=4.2 mm (wide) to 42 mm (tele), F1.8 to F2.9
- 10 mm minimum working distance (wide end)
- 1000 mm minimum working distance (tele end)
- 1.5 lx (50 IRE) minimum illumination
- Automatic/manual white balance
- Manual or automatic focus

Video Standard

- MPEG-4 Simple Profile @ L3
- H.263
- Up to 2.5 Mbps
- User selectable resolutions and frame rates up to
- D1 (720 x 480) at 30 fps

User Interface & Features

- VGA (640 x 480) display/viewfinder
- Integrated touch screen
- User-friendly graphical user interface
- Dedicated call send and end buttons – simple end-user experience much like a mobile telephone
- Still image capture button
- Stream button – video stream can be started and stopped by pushing one button
- Context sensitive cursor pad buttons (includes volume controls, microphone mute, and illumination control)
- Media record to SD card
- Manual focus button
- OSD (On Screen Display) button for easy access to status and other information
- Integrated contacts directory
- End user selectable streaming parameters
- LED indicators for power, stream/record, power/charging, and network link

Collaboration Features

- Form factor and software optimized to allow real time voice and video collaboration related to subject matter being captured by the Onsight Device
- Telestration: allowing both the Onsight Device operator and PC operator to draw on top of the video or frozen image – both “ends” of the conversation see the drawing simultaneously
- Remote control of major Onsight Device features – zoom, focus, still image capture, illumination, and stream parameters

Audio Features

- Built-in omni-directional microphone for VoIP support
- Built-in microphone or line-in input for capture of subject audio time synchronized with the subject video
- Wired headset support ideal for high noise environments
- Speakerphone with acoustic echo cancellation
- Silence suppression of VoIP communications to minimize network bandwidth utilization
- Dynamic jitter buffer adjusts to changing network conditions to balance low latency with a low voice dropout rate

Audio Standards

- VoIP: G.711, GSM
- Subject Audio: G.711, GSM

Security

- User ID and password control
- WLAN Network Authentication:
  - WPA – Enterprise
  - WPA – PSK
  - WPA2
  - WPA2 – PSK
  - Open
  - Shared
- WLAN Data Encryption:
  - WEP
  - TKIP
  - Disabled
  - AES
- 802.1X Authentication
  - EAP–TLS
  - PEAP
  - PEAP-GTC
- Media Encryption
  - AES-128

External Interfaces

- SD/SDHC Memory Card (SD Class 10 or higher)
  - Minimum write speed: 9.0 MB/sec
  - Minimum read speed: 10.0 MB/sec
- S-Video
  - S-Video In
  - S-Video Out (optional)
- External power in
- Headset
  - mono 32 ohm speaker
  - 3.5mm audio jack, 3 conductor, tip mic, ring speaker
- 10/100 Mb Ethernet
- USB Host 2.0, low/full speed
- Audio Line-in
  - 1 Vrms input
  - 2.5 mm audio jack, 2 conductor, tip line-in

Communications

- IP calls - SIP
- Integrated 802.11 b/g radio
- RJ-45 10/100 Ethernet

Power

- Rechargeable 2400 mAH Li-Ion battery pack
- External power

- Input: 12 VDC @ 1A
- External Power Adapter Specifications:
  - Output Voltage: 12 VDC @ 1.5A
  - Rated Input Voltage: 100 – 240 VAC
  - Input Voltage Range: 90 – 264 VAC
  - Rated Input Frequency: 50 – 60 Hz
  - Input Frequency Range: 47 – 63 Hz

Operating Environment

- Temperature:
  - Operating: 0° to 40° C
  - Storage: –20° to 60° C
- Operating humidity: 5 – 80% (non-condensing)

9 Onsight 2000R/Onsight 2000Ex Technical Specifications

System Architecture

- High performance, multiprocessor architecture optimized for real-time multimedia processing and communications in a handheld form factor
- Microsoft WinCE 5.0
- SIP-based session control
- Windows-based PC Client allowing for easy call initiation and camera control

Physical Characteristics

- Size – 187 (7.36”) mm wide x 127 (5.00”) mm high incl. antenna, 104 (4.09”)mm without antenna x 108 (4.25”) mm deep
- Weight – Approx. 900 grams (1.98 pounds) without battery
- Non slip hand grips
- Integrated LED-based illumination ring
- Integrated water resistant door for access to Battery and SD Card
- Rugged form factor resists shock and drop

Optical Performance

- CCD image sensor – capable of high precision close-up video
- 10x optical zoom, f=4.2 mm (wide) to 42 mm (tele), F1.8 to F2.9
- 10 mm minimum working distance (wide end)
- 1000 mm minimum working distance (tele end)
- 1.5 lx (50 IRE) minimum illumination
- Automatic/manual white balance
- Manual or automatic focus

Video Standard

- MPEG-4 Simple Profile @ L3
- H.263
- Up to 2.5 Mbps
- User selectable resolutions and frame rates up to:
  - D1 (720 x 480) at 30 fps

User Interface & Features

- VGA (640 x 480) display/viewfinder
- Integrated touch screen
- User-friendly graphical user interface
- Dedicated call send and end buttons
  - Simple end-user experience much like a cellular telephone
- Still image capture button
- Stream button
  - Video stream can be started and stopped by pushing one button
- Context sensitive cursor pad buttons (includes volume controls, microphone mute, and illumination control)
- Media record to SD card
- Manual focus button
- OSD (On Screen Display) button for easy access to status and other information
- Integrated contacts directory
- End user selectable streaming parameters
- LED indicators for power, stream/record, power/charging, and network link

Collaboration Features

- Form factor and software optimized to allow real time voice and video collaboration related to subject matter being captured by the Onsight Device
- Telestration:
  - Allows both the Onsight Device operator and Onsight Connect operator to draw on top of the video or frozen image
  - Both “ends” of the conversation see the drawing simultaneously
- Remote control of major Onsight Device features – zoom, focus, still image capture, illumination, and stream parameters

Audio Features

- Omni-directional microphone for VoIP support
- Microphone or line-in input for capture of subject audio time synchronized with the subject video
- Headset connector for high noise environments
- Speakerphone with acoustic echo cancellation
- Silence suppression of VoIP communications to minimize network bandwidth utilization
- Dynamic jitter buffer adjusts to changing network conditions to balance low latency with a low voice dropout rate

Audio Standards

- VoIP: G.711, GSM 6.10
- Subject Audio: G.711, GSM 6.10

Security

- User ID and password control
- WLAN Network Authentication modes:
  - WPA/WPA2 – Enterprise
  - WPA/WPA2 – PSK
  - Open
  - Shared
- WLAN Data Encryption modes:
  - WEP
  - TKIP
  - Disabled
  - AES
- 802.1X Authentication
  - EAP-TLS
  - PEAP
  - PEAP-GTC
- Media Encryption
  - AES-128

External Interfaces

- SD/SDHC Memory Card (SD Class 10 or higher)
  - Minimum write speed: 9.0 MB/sec
  - Minimum read speed: 10.0 MB/sec
- Headset
  - Mono 32 ohm speaker
  - 3.5mm audio jack (3 conductor, tip microphone, ring speaker)
- Removable Input/Output Sled
- External power input
- RJ-45 10/100 Mbps Ethernet
- USB Host 2.0
- Audio Line-in
  - 1 Vrms input
  - 2.5 mm audio jack, 2 conductor, tip line-in
- S-Video
  - Configurable for Input or Output

Communications

- IP calls – SIP call control
- Integrated 802.11 b/g radio

- 10/100 Mbps Ethernet (via removable Input/Output Sled)

POWER

- Rechargeable 2400 mAH Li-Ion battery pack
- External power
  - Input: 12 VDC @ 1A
  - External Power Adapter Specifications:
    - Output Voltage: 12 VDC @ 1.5A
    - Rated Input Voltage: 100 – 240 VAC
    - Input Voltage Range: 90 – 264 VAC
    - Rated Input Frequency: 50 – 60 Hz
    - Input Frequency Range: 47 – 63 Hz

OPERATING ENVIRONMENT

- Temperature:
  - Operating: -10° to 40° C
  - Storage: –20° to 60° C
- Humidity (non-condensing):
  - Operating: 5 – 95%
  - Storage: 5 – 85%
- N.B. Long term storage over 3 months is 0°C to 40°C at 60% R.H. or less

EXPLOSION PROTECTION

- Explosion protected versions available (Onsight 2000Ex). Consult the Onsight 2000 Regulatory and Safety Guide and the product label for specific ratings.

10 Onsight 2500R/Onsight 2500Ex Technical Specifications

System Architecture

- High performance, multiprocessor architecture optimized for real-time multimedia processing and communications in a handheld form factor
- Microsoft WinCE 5.0
- SIP-based session control
- Windows-based PC Client allowing for easy call initiation and camera control

Physical Characteristics

- Size – 187 (7.36”) mm wide x 127 (5.00”) mm high incl. antenna, 104 (4.09”)mm without antenna x 108 (4.25”) mm deep
- Weight – Approx. 900 grams (1.98 pounds) without battery
- Non slip hand grips
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Video Standard

- H.264
- H.263
- Up to 2.5 Mbps
- User selectable resolutions and frame rates up to:
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EXPLOSION PROTECTION

- Explosion protected versions available (Onsight 2500Ex). Consult the Onsight 2500 Regulatory and Safety Guide and the product label for specific ratings.

11 Service Information

If you encounter difficulties with the Onsight Device, contact your corporate technical support department. They will determine whether the problem exists within the network infrastructure or the Onsight equipment and will contact Librestream Support. See page 73 for Librestream contact information.

12 Regulatory and Safety Information

The Onsight 1000, Onsight 2000 and Onsight 2500 Regulatory and Safety Guides contain detailed safety information.

Before operating the Onsight 1000, you must read the Onsight 1000 Regulatory and Safety Guide.

Before operating the Onsight 2000/2500, you must read the Onsight 2000/2500 Regulatory and Safety Guide.

13 Librestream Limited Warranty Agreement

Hardware: Librestream warrants to the original purchaser (Buyer) that the hardware Product will be free of defects in workmanship and materials for a period of twelve (12) months from the date of shipment from Librestream or its designated manufacturer, unless otherwise provided by Librestream in writing, provided the Product remains unmodified and is operated under normal and proper conditions. The warranty does not extend to persons other than the Buyer who purchased the product in unused condition from Librestream. Warranty provisions and durations on remanufactured products, and reconditioned or upgraded products, shall be as provided in the particular Product documentation in effect at the time of purchase.

Products may be serviced with parts, components, or subassemblies that originate from returned products and that have been determined to meet applicable specifications for equivalent new material and Products.

The sole obligation of Librestream for defective hardware Products is limited to repair or replacement (at Librestream's option) on a "return to service depot" basis with prior Librestream authorization. Buyer is responsible for shipment to Librestream and assumes all costs and risks associated with this transportation; return shipment to Buyer will be at Librestream's expense. The Product must be returned either in its original packaging or in a similar package affording an equal degree of protection.

Buyer shall be responsible for return shipment charges for Product returned where Librestream determines there is no defect ("No Defect Found"), or for Product returned that Librestream determines is not eligible for warranty repair. If after investigation Librestream determines that the reported defect was not covered by warranty, Buyer shall be liable to pay Librestream, at Librestream's sole discretion, for the cost of investigating the problem at Librestream's then prevailing per incident billable rate. No charge will be made to Buyer for replacement parts for warranty repairs. Librestream is not responsible for any damage to or loss of data or removable data storage media, or the restoration or reinstallation of any software programs or data other than the software, if any, installed by Librestream during manufacture of the Product.

The above warranty provisions shall not apply to any Product (i) which has been repaired, tampered with, altered or modified, except by Librestream; (ii) in which the defects or damage to the Product result from normal wear and tear, misuse, negligence, improper storage, water or other liquids, battery leakage, use of parts or accessories not approved or supplied by Librestream, or failure to perform operator handling and scheduled maintenance instructions supplied by Librestream; (iii) which has been subjected to unusual physical or electrical stress, abuse, or accident, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable Product specification; or (iv) used with any software, hardware or third party equipment not approved by Librestream, nor shall the above warranty provisions apply to any expendable or consumable items, such as batteries, supplied with the Product.

Software: Any Librestream software enclosed or embedded in the hardware Product is warranted in accordance with, and is otherwise subject to, the provisions of the Librestream End User License Agreement that is applicable to that Librestream software.

EXCEPT FOR THE WARRANTY OF TITLE AND THE EXPRESS WARRANTIES STATED ABOVE, LIBRESTREAM DISCLAIMS ALL OTHER WARRANTIES OF ANY NATURE OR KIND WHATSOVER ON HARDWARE PRODUCTS FURNISHED HEREUNDER, INCLUDING ALL IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. THE REMEDY SET FORTH IN THIS LIMITED WARRANTY AGREEMENT IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS, AND IS EXPRESSLY IN LIEU OF ALL OTHER REMEDIES THAT MAY BE AVAILABLE TO BUYER AT LAW OR IN EQUITY.

14 End User License Agreement

This product's software is licensed under the terms of an End User License Agreement (EULA), the latest version of which can be found at:

http://www.librestream.com/products/termsofuse.html

15 Librestream Contact Information

Website
www.librestream.com

Head Office
Librestream Technologies Inc.
895 Waverley St., Suite 110
Winnipeg, Manitoba
Canada, R3T 5P4

General Inquiries
Email information@librestream.com
Phone +1.204.487.0612
Fax +1.204.487.0914

Support
Email support@librestream.com
Phone +1.204.487.0612
Fax +1.204.487.0914